ELSEVIER

Parallel Computing 20 (1994) 1787–1817

PARALLEL COMPUTING

Author index to volumes 11–20 (1989–1994)

Aboelaze, M. and **D.-L. Lee**, A method for data allocation and manipulation in Hypercube computers 19 (1993) 497
Adamides, E., Ph. Tsalides and **A. Thanailakis**, Synchronization of asynchronous concurrent processes using cellular automata 11 (1989) 163
Adamides, E.D., P. Tsalides and **A. Thanailakis**, Hierarchical Cellular Automata structures 18 (1992) 517
Adamopoulos, M., *see* **Evans, D.J.** 16 (1990) 279
Addison, C.A., *see* **Delves, L.M.** 20 (1994) 1639
Addison, C.A., V.S. Getov, A.J.G. Hey, R.W. Hockney and **I.C. Wolton**, Benchmarking for distributed memory parallel systems: Gaining insight from numbers 20 (1994) 1653
Aggarwal, R., D.R. Dellwo and **M.B. Friedman**, Parallel solution of Fredholm integral equations of the second kind by accelerated projection methods 19 (1993) 1105
Akl, S.G., *see* **Osiakwan, C.N.K.** 17 (1991) 643
Akl, S.G. and **K. Qiu**, A novel routing scheme on the star and pancake networks and its applications 19 (1993) 95
Alaghband, G., Parallel pivoting combined with parallel reduction and fill-in control 11 (1989) 201
Alef, M., Concepts for efficient multigrid implementation on SUPRENUM-like architectures 17 (1991) 1
Alef, M., Implementation of a multigrid algorithm on SUPRENUM and other systems 20 (1994) 1547
Allen Jr., R.C., *see* **Womble, D.E.** 11 (1989) 263
Allison, D.C.S., *see* **Chakraborty, A.** 17 (1991) 1385
Alnuweiri, H.M. and **V.K. Prasanna Kumar**, An efficient VLSI architecture with applications to geometric problems 12 (1989) 71
Altekar, S.D., A.K. Ray and **B.R. Wienke**, On the parallelization of a S_n transport algorithm on a CRAY Y-MP (*Short communication*) 19 (1993) 823
Altevogt, P. and **A. Linke**, Parallelization of the two-dimensional Ising Model on a cluster of IBM RISC System/6000 workstations 19 (1993) 1041
Aluru, S., G.M. Prabhu and **J. Gustafson**, A random number generator for parallel computers 18 (1992) 839
Amodio, P. and **N. Mastronardi**, A parallel version of the cyclic reduction algorithm on a Hypercube 19 (1993) 1273
Andersen, J., G. Mitra and **D. Parkinson**, The scheduling of sparse matrix-vector multiplication on a massively parallel DAP computer 18 (1992) 675
Angelaccio, M. and **M. Colajanni**, The row/column pivoting strategy on multicomputers 20 (1994) 197
Angelaccio, M. and **M. Colajanni**, Subcube matrix decomposition: A unifying view for LU factorization on multicomputers 20 (1994) 257
Antelo, E., *see* **Bruguera, J.D.** 19 (1993) 729
Arbenz, P., Divide and conquer algorithms for the bandsymmetric eigenvalue problem 18 (1992) 1105
Arenstorf, N.S. and **H.F. Jordan**, Comparing barrier algorithms 12 (1989) 157
Arunkumar, S., *see* **Chockalingam, T.** 18 (1992) 1157
Arvind, D.K., On the detection of communication-related errors in concurrent programs 18 (1992) 1381

Arvindam, S., V. Kumar, V.N. Rao and **V. Singh**, Automatic test pattern generation on parallel processors 17 (1991) 1323
Asenov, A., D. Reid and **J.R. Barker**, Speed-up of scalable iterative linear solvers implemented on an array of transputers 20 (1994) 375
Atiquzzaman, M. and **M.M. Banat**, Effect of hot-spots on the performance of crossbar multiprocessor systems 19 (1993) 455
Atogi, O.M., *see* **Leach, R.J.** 13 (1990) 73
Audet, D., Y. Savaria and **J.-L. Houle**, Performance improvements to VLSI parallel systems, using dynamic concatenation of processing resources 18 (1992) 149
Averbuch, A., E. Gabber, B. Gordissky and **Y. Medan**, A parallel FFT on an MIMD machine 15 (1990) 61
Averbuch, A., *see* **Gohberg, I.** 17 (1991) 563
Azaria, H. and **Y. Elovici**, Modeling and evaluation of a new message-passing system for parallel multiprocessor systems 19 (1993) 633
Aziz, O.A., *see* **Delves, L.M.** 20 (1994) 1639

Babolian, E. and **L.M. Delves**, Parallel solution of Fredholm integral equations 12 (1989) 95
Baca, L.S., *see* **Womble, D.E.** 11 (1989) 263
Bader, G. and **E. Gehrke**, On the performance of transputer networks for solving linear systems of equations 17 (1991) 1397
Bahi, M. and **J.C. Miellou**, Contractive mappings with maximum norms: Comparison of constants of contraction and application to asynchronous iterations 19 (1993) 511
Baillie, C.F., *see* **Pawley, G.S.** 11 (1989) 321
Baillie, C.F. and **G.S. Pawley**, A comparison of the CM with the DAP for lattice gauge theory 12 (1989) 209
Baker, M.A., K.C. Bowler and **R.D. Kenway**, MIMD implementations of linear solvers for oil reservoir simulation 16 (1990) 313
Bakker, A.F., *see* **Van Der Vlugt, F.F.** 15 (1990) 47
Bala, V., J. Bruck, R. Bryant, R. Cypher, P. de Jong, P. Elustondo, D. Frye, A. Ho, C.-T. Ho, G. Irwin, S. Kipnis, R. Lawrence and **M. Snir**, The IBM external user interface for scalable parallel systems 20 (1994) 445
Balboni, G.P., G.P. Cabodi, S. Gai and **M. Sonza Reorda**, A parallel system for test pattern generation 19 (1993) 177
Bampis, E., J.C. Konig and **D. Trystram**, Impact of communications on the complexity of the Parallel Gaussian Elimination 17 (1991) 55
Banat, M.M., *see* **Atiquzzaman, M.** 19 (1993) 455
Bane, M.K., *see* **Freeman, T.L.** 17 (1991) 673
Baolin, Z. and **L. Wenzhi**, On Alternating Segment Crank-Nicolson scheme (*Short communication*) 20 (1994) 897
Barada, H. and **A. El-Amawy**, A methodology for algorithm regularization and mapping into time-optimal VLSI arrays 19 (1993) 33
Baransky, Y., *see* **Kumar, M.** 19 (1993) 1393
Barker, J.R., *see* **Asenov, A.** 20 (1994) 375
Bar-On, I., Efficient logarithmic time parallel algorithms for the Cholesky decomposition and Gram–Schmidt process 17 (1991) 409
Barr, R.S., R.V. Helgaon and **J.L. Kennington**, Minimal spanning trees: An empirical investigation of parallel algorithms 12 (1989) 45
Barros, S.R.M. and **T. Kauranne**, On the parallelization of global spectral weather models 20 (1994) 1335
Barton, E., J. Cownie and **M. McLaren**, Message passing on the Meiko CS-2 20 (1994) 497
Basermann, A. and **P. Weidner**, A parallel algorithm for determining all eigenvalues of large real symmetric tridiagonal matrices 18 (1992) 1129
Basu, A., *see* **Kumar, P.S.** 18 (1992) 849
Basu, A., *see* **Kumar, P.S.** 19 (1993) 187
Basu, A., *see* **Chandra, S.** 19 (1993) 595
Basu, A.J., A parallel algorithm for spectral solution of the three-dimensional Navier–Stokes equations 20 (1994) 1191
Baz, D.E., *see* **Ribeiro, C.** 18 (1992) 1393

Beazley, D.M. and **P.S. Lomdahl**, Message-passing multi-cell molecular dynamics on the Connection Machine 5 20 (1994) 173
Beecroft, J., M. Homewood and **M. McLaren**, Meiko CS-2 interconnect Elan-Elite design 20 (1994) 1627
Beidas, B.F. and **G.P. Papavassilopoulos**, Convergence analysis of asynchronous linear iterations with stochastic delays 19 (1993) 281
Bekakos, M.P. and **D.J. Evans**, The Double Alternating Group Explicit method for non-linear parabolic equations on MIMD parallel computers 18 (1992) 879
Bekakos, M.P. and **D.J. Evans**, Parallel cyclic odd-even reduction algorithms for solving Toeplitz tridiagonal equations on MIMD computers 19 (1993) 545
Benaini, A. and **Y. Robert**, An even faster systolic array for matrix multiplication (*Short Communication*) 12 (1989) 249
Benaini, A. and **Y. Robert**, Spacetime-minimal systolic arrays for Gaussian elimination and the Algebraic Path Problem 15 (1990) 211
Bentley, M. and **C.F. Fischer**, Hypercube conversion of serial codes for atomic structure calculations 18 (1992) 1023
Bergman, C.M., *see* **Sawley, M.L.** 20 (1994) 363
Beris, A.N., *see* **Stark, S.** 18 (1992) 959
Bermond, J.-C., P. Michallon and **D. Trystram**, Broadcasting in wraparound meshes with parallel monodirectional links 18 (1992) 639
Berntsen, J., Communication efficient matrix multiplication on hypercubes 12 (1989) 335
Berry, M., G. Cybenko and **J. Larson**, Scientific benchmark characterizations 17 (1991) 1173
Bertsekas, D.P. and **D.A. Castañon**, Parallel synchronous and asynchronous implementations of the auction algorithm 17 (1991) 707
Bertsekas, D.P., *see* **Varvarigos, E.A.** 18 (1992) 1233
Bertsekas, D.P., *see* **Polymenakos, L.C.** 20 (1994) 1221
Bhattacharya, P., *see* **Suraweera, F.** 18 (1992) 551
Bischof, C.H., Computing the singular value decomposition on a distributed system of vector processors 11 (1989) 171
Bischof, C.H., and **H. Strauss**, 1st European Workshop on Hypercube and Distributed Computers (*Conference Report*) 13 (1990) 127
Blackwell, P.K., *see* **Efe, K.** 20 (1994) 1763
Blake, R.J., *see* **Hu, Y.F.** 20 (1994) 815
Bleakney, C.W., *see* **Clint, M.** 18 (1992) 1325
Block, U., A. Frommer and **G. Mayer**, Block colouring schemes for the SOR method on local memory parallel computers 14 (1990) 61
Boffey, T.B. and **W.A. Essah**, Implementing a parallel constrained l_1 approximation algorithm 19 (1993) 609
Bogart, C., *see* **Whitley, D.** 14 (1990) 347
Boglaev, Y.P., Exact dynamic load balancing of MIMD architectures with linear programming algorithms 18 (1992) 615
Bohr, H., K.S. Jensen, T. Petersen, B. Rathjen, E. Mosekilde and **N.-H. Holstein-Rathlou**, Parallel computer simulation of nearest-neighbour interaction in a system of nephrons 12 (1989) 113
Boissin, N. and **J.-L. Lutton**, A parallel simulated annealing algorithm 19 (1993) 859
Bolch, G., *see* **Fleischmann, G.** 20 (1994) 1583
Bollman, D., *see* **Seguel, J.** 20 (1994) 93
Bomans, L., D. Roose and **R. Hempel**, The Argonne/GMD macros in FORTRAN for portable parallel programming and their implementation on the Intel iPSC/2 15 (1990) 119
Bondeli, S., Divide and conquer: a parallel algorithm for the solution of a tridiagonal linear system of equations 17 (1991) 419
Bonomo, J.P. and **W.R. Dyksen**, Pipelined iterative methods for shared memory machines 11 (1989) 187
Boreddy, J. and **A. Paulraj**, On the performance of transputer arrays for dense linear systems 15 (1990) 107
Born, J., *see* **Mühlenbein, H.** 17 (1991) 619
Bossomaier, T. and **A. Loeff**, Parallel computation of the Hausdorff distance between images 19 (1993) 1129

Bowler, K.C., *see* **Baker, M.A.** 16 (1990) 313
Boxer, L., Finding congruent regions in parallel 18 (1992) 807
Brass, A., *see* **Li, J.** 14 (1990) 211
Breant, F., *see* **Montagne, E.** 20 (1994) 807
Brezany, P., *see* **Zima, H.P.** 20 (1994) 1487
Brickner, R.G., *see* **Hiromoto, R.** 18 (1992) 241
Briggs, W.L., *see* **Sweet, R.A.** 17 (1991) 121
Briggs, W.L., *see* **Swarztrauber, P.N.** 17 (1991) 607
Brochard, L., Efficiency of some parallel numerical algorithms on distributed systems 12 (1989) 21
Bruck, J., *see* **Bala, V.** 20 (1994) 445
Brudaru, O., *see* **Megson, G.M.** 18 (1992) 415
Brugnano, L. and **M. Marrone**, Vectorization of some block preconditioned conjugate gradient methods 14 (1990) 191
Brugnano, L., A parallel solver for tridiagonal linear systems for distributed memory parallel computers 17 (1991) 1017
Bruguera, J.D., *see* **Rivera, F.F.** 14 (1990) 51
Bruguera, J.D., *see* **García, I.** 15 (1990) 87
Bruguera, J.D., E. Antelo and **E.L. Zapata**, Design of a pipelined radix 4 CORDIC processor 19 (1993) 729
Bryant, R., *see* **Bala, V.** 20 (1994) 445
Buoni, J.J., P.A. Farrell and **A. Ruttan**, Algorithms for LU decomposition on a shared memory multiprocessor 19 (1993) 925
Burg, H.C. and **J. Helin**, 1991 International Conference on Supercomputing 18 (1992) 467
Burkitt, A.N., *see* **Heermann, D.W.** 13 (1990) 345
Burrage, K., An adaptive numerical integration code for a chain of transputers 16 (1990) 305
Busvine, D., Implementing recursive functions as processor farms 19 (1993) 1141
Butel, R., A Cray-2 versus CM-2 comparison using several polynomial benchmarks 18 (1992) 931
Butler, R.M. and **E.L. Lusk**, Monitors, messages, and clusters: The p4 parallel programming system 20 (1994) 547
Butt, W.U.N., *see* **Evans, D.J.** 19 (1993) 897
Butt, W.U.N., *see* **Evans, D.J.** 20 (1994) 325

Cabodi, G.P., *see* **Balboni, G.P.** 19 (1993) 177
Caffey, H., L.-Z. Liao and **C.A. Shoemaker**, Parallel processing of large scale discrete-time unconstrained differential dynamic programming 19 (1993) 1003
Calinescu, R. and **D.J. Evans**, A parallel simulation model for load balancing in clustered distributed systems 20 (1994) 77
Calkin, R., R. Hempel, H.-C. Hoppe and **P. Wypior**, Portable programming with the PARMACS message-passing library 20 (1994) 615
Callahan, D., *see* **Levine, D.** 17 (1991) 1223
Calvet, J.L., *see* **Dantas De Melo, J.** 13 (1990) 261
Campanini, R., I. D'Antone, G. Di Caro and **G. Giusti**, A transputer-based parallel expert diagnostic system 19 (1993) 685
Cannataro, M., *see* **Conforti, D.** 18 (1992) 31
Cap, C.H. and **V. Strumpen**, Efficient parallel computing in distributed workstation environments 19 (1993) 1221
Cappello, P., *see* **Koç, Ç.K.** 19 (1993) 1303
Carlson, D.A. and **B. Sugla**, Adapting shuffle-exchange like parallel processing organizations to work as systolic arrays 11 (1989) 93
Carmona, E.A., *see* **Hockney, R.W.** 18 (1992) 1067
Carnevali, P. and **M. Kindelan**, A simplified model to predict the performance of Fortran vector loops on the IBM 3090/VF 13 (1990) 35
Carriero, N.J., D. Gelernter, T.G. Mattson and **A.H. Sherman**, The Linda alternative to message-passing systems 20 (1994) 633
Casaleggio, A., *see* **Corana, A.** 17 (1991) 809
Casiccia, P., P. Castangia, S. Cincotti and **G. Parodi**, Simulation of a molecular cellular array on a transputer-based parallel computer 18 (1992) 313
Castangia, P., *see* **Casiccia, P.** 18 (1992) 313

Castañon, D.A., *see* **Bertsekas, D.P.** 17 (1991) 707
Catthoor, F.V.M., *see* **Van Swaaij, M.F.X.B.** 16 (1990) 113
Celmaster, W., *see* **Pawley, G.S.** 11 (1989) 321
Chajakis, E.D. and **S.A. Zenios**, Synchronous and asynchronous implementations of relaxation algorithms for nonlinear network optimization 17 (1991) 873
Chakraborty, A., D.C.S. Allison, C.J. Ribbens and **L.T. Watson**, Note on unit tangent vector computation for homotopy curve tracking on a hypercube 17 (1991) 1385
Chalmers, A.G. and **S. Gregory**, Constructing minimum path configurations for multiprocessor systems 19 (1993) 343
Chan, I.W. and **D.K. Friesen**, Parallel algorithm for segment visibility reporting 19 (1993) 973
Chandra, S., M. Jain, A. Basu and **P.S. Kumar**, Sorting algorithms on transputer arrays 19 (1993) 595
Chang, H.K.-C., J.J.-R. Chen and **S.-J. Shyu**, A parallel algorithm for the knapsack problem using a generation and searching technique 20 (1994) 233
Chang, R.-C., *see* **Wang, H.-H.** 20 (1994) 1007
Chapman, B.M., *see* **Zima, H.P.** 20 (1994) 1487
Chaudhari, N.S., *see* **Jain, A.** 20 (1994) 1303
Chen, D.J., *see* **Horng, M.S.** 20 (1994) 1739
Chen, G.H., *see* **Sheu, J.-P.** 11 (1989) 381
Chen, G.-H., M.-S. Chern and **J.-H. Jang**, Pipeline architectures for dynamic programming algorithms (*Short Communication*) 13 (1990) 111
Chen, G.-H., H.-F. Ho, S.-H. Lin and **J.-P. Sheu**, Data mapping of linear programming on fixed-size hypercubes (*Short Communication*) 13 (1990) 235
Chen, G.-H., *see* **Sheu, J.-P.** 13 (1990) 245
Chen, G.-H. and **M.-S. Chern**, Synthesis of algorithms on processor arrays 17 (1991) 279
Chen, G.-H. and **W.-W. Liang**, Conflict-free broadcasting algorithms for graph traversals and their applications 18 (1992) 439
Chen, G.-H. and **J.-H. Jang**, An improved parallel algorithm for 0/1 knapsack problem 18 (1992) 811
Chen, G.-H., *see* **Hung, Y.-C.** 18 (1992) 823
Chen, H.-L., *see* **Hu, S.-H.** 20 (1994) 1721
Chen, J.J.-R., *see* **Chang, H.K.-C.** 20 (1994) 233
Chen, L., E.V. Krishnamurthy and **I. Macleod**, Generalised matrix inversion and rank computation by successive matrix powering 20 (1994) 297
Chen, P., *see* **Murthy, V.K.** 18 (1992) 75
Chen, W.-T. and **M.-Y. Fang**, An efficient procedure for theorem proving in propositional logic on vector computers 17 (1991) 983
Cheng, K.H. and **S. Sahni**, VLSI architectures for back substitution 12 (1989) 53
Cheng, R.-L. and **C.-P. Chung**, Reaching approximate agreement on hypercube 19 (1993) 765
Chern, M.-S., *see* **Chen, G.-H.** 13 (1990) 111
Chern, M.-S., *see* **Chen, G.-H.** 17 (1991) 279
Chikohora, S., *see* **Evans, D.J.** 17 (1991) 833
Chockalingam, T. and **S. Arunkumar**, A randomized heuristics for the mapping problem: The genetic approach 18 (1992) 1157
Choi, J.-J., *see* **Jeong, C.-S.** 18 (1992) 221
Choi, Y.-H., Reconfigurable VLSI/WSI multipipelines 17 (1991) 941
Choi, Y.-H., An easily-diagnosable fault-tolerant binary tree architecture 18 (1992) 1185
Chou, H.-C. and **C.-P. Chung**, A bound analysis of scheduling instructions on pipelined processors with a maximal delay of one cycle 18 (1992) 393
Choudhary, A.N., B. Narahari and **R. Krishnamurti**, An efficient heuristic scheme for dynamic remapping of parallel computations 19 (1993) 621
Chronopoulos, A.T. and **C.W. Gear**, On the efficient implementation of preconditioned s-step conjugate gradient methods on multiprocessors with memory hierarchy 11 (1989) 37
Chronopoulos, A.T., *see* **Kim, S.K.** 17 (1991) 763
Chu, E. and **A. George**, QR factorization of a dense matrix on a shared-memory multiprocessor 11 (1989) 55
Chu, E. and **A. George**, A balanced submatrix merging algorithm for multiprocessor architectures 18 (1992) 1

Chu, E., *see* **Edmonds, P.** 19 (1993) 9
Chu, E., A. George and **D. Quesnel**, Parallel matrix inversion on a subcube-grid 19 (1993) 243
Chu, Y.P. and **C.M. Hsieh**, An artificial neural network model with modified perceptron algorithm 18 (1992) 983
Chung, C.-P., *see* **Chou, H.-C.** 18 (1992) 393
Chung, C.-P., *see* **Shiau, Y.-H.** 18 (1992) 497
Chung, C.-P., *see* **Cheng, R.-L.** 19 (1993) 765
Chung, K.-L., *see* **Lin, F.-C.** 15 (1990) 189
Cincotti, S., *see* **Casiccia, P.** 18 (1992) 313
Clarke, M.R.B., *see* **Kontoghiorghes, E.J.** 19 (1993) 703
Clauss, P., C. Mongenet and **G.R. Perrin**, Synthesis of size-optimal toroïdal arrays for the Algebraic Path Problem: A new contribution 18 (1992) 185
Clint, M., *see* **Weston, J.S.** 13 (1990) 281
Clint, M., *see* **Waring, L.C.** 17 (1991) 1043
Clint, M., J.S. Weston and **C.W. Bleakney**, A comparison of two Fortran dialects for expressing parallel solutions for a problem in linear algebra 18 (1992) 1325
Colajanni, M., *see* **Angelaccio, M.** 20 (1994) 197
Colajanni, M., *see* **Angelaccio, M.** 20 (1994) 257
Comish, D., *see* **Megson, G.M.** 18 (1992) 415
Conforti, D., L. Grandinetti, R. Musmanno, M. Cannataro, G. Spezzano and **D. Talia**, A model of efficient asynchronous parallel algorithms on multicomputer systems 18 (1992) 31
Conner, M. and **R. Tolimieri**, Special purpose hardware for Discrete Fourier Transform implementation 20 (1994) 215
Conroy, J.M., Parallel nested dissection 16 (1990) 139
Corana, A., A. Casaleggio, C. Rolando and **S. Ridella**, Efficient computation of the correlation dimension from a time series on a LIW computer 17 (1991) 809
Cosnard, M. and **P. Fraigniaud**, Finding the roots of a polynomial on an MIMD multicomputer 15 (1990) 75
Counilh, M.C. and **J. Roman**, Expression for massively parallel algorithms – description and illustrative example 16 (1990) 239
Cowell, W.R., *see* **Thompson, C.P.** 18 (1992) 449
Cownie, J., *see* **Barton, E.** 20 (1994) 497
Cracknell, A.P., *see* **Khan, B.** 18 (1992) 1335
Cripps, M., *see* **Sharp, D.** 18 (1992) 1363
Cybenko, G., *see* **Berry, M.** 17 (1991) 1173
Cypher, R., *see* **Bala, V.** 20 (1994) 445
Czech, Z.J., M. Konopka and **B.S. Majewski**, Parallel algorithms for finding a suboptimal fundamental-cycle set in a graph 19 (1993) 961

Da Mota Tenorio, M.F., Topology synthesis networks: self organization of structure and weight adjustment as a learning paradigm 14 (1990) 363
D'Acierno, A. and **R. Vaccaro**, On parallelizing recursive neural networks on coarse-grained parallel computers: A general algorithm 20 (1994) 245
Dantas De Melo, J., J.L. Calvet and **J.M. Garcia**, Vectorization and multitasking of dynamic programming in control: Experiments on a CRAY-2 13 (1990) 261
D'Antone, I., *see* **Campanini, R.** 19 (1993) 685
Daoudi, E.M. and **J. Lobry**, Implementation of a boundary element method on distributed memory computers 18 (1992) 1317
Darlington, J., *see* **Sharp, D.** 18 (1992) 1363
Darte, A. and **Y. Robert**, Mapping uniform loop nests onto distributed memory architectures 20 (1994) 679
Das, S.K., N. Deo and **S. Prasad**, Parallel graph algorithms for hypercube computers 13 (1990) 143
Das, S.K., N. Deo and **S. Prasad**, Two minimum spanning forest algorithms on fixed-size hypercube computers 15 (1990) 179
Das, S.K. and **C.-Q. Yang**, Performance of parallel spanning tree algorithms on linear arrays of transputers and Unix systems 17 (1991) 527

Das, S.R., N.H. Vaidya, L.M. Patnaik and **P.C. Mathias**, A systolic algorithm for hidden surface removal 15 (1990) 277
Davis, G.J., *see* **Geist, G.A.** 13 (1990) 199
Deák, I., Uniform random number generators for parallel computers 15 (1990) 155
De Gloria, A. and **P. Faraboschi**, A Boltzmann Machine approach to code optimization 17 (1991) 969
De Gloria, A., P. Faraboschi and **S. Ridella**, A dedicated massively parallel architecture for the Boltzman machine 18 (1992) 57
De Gloria, A., P. Faraboschi and **M. Olivieri**, Clustered Boltzmann Machines: Massively parallel architectures for constrained optimization problems 19 (1993) 163
Dehne, F., A.-L. Hassenklover and **J.-R. Sack**, Computing the configuration space for a robot on a mesh-of-processors 12 (1989) 221
Dehne, F., A.G. Ferreira and **A. Rau-Chaplin**, Parallel branch and bound on fine-grained hypercube multiprocessors 15 (1990) 201
Dehne, F. and **M. Gastaldo**, A note on the load balancing problem for coarse grained hypercube dictionary machines 16 (1990) 75
Dehne, F., A. Ferreira and **A. Rau-Chaplin**, A massively parallel knowledge-base server using a hypercube multiprocessor 20 (1994) 1369
De Jong, P., *see* **Bala, V.** 20 (1994) 445
De Keyser, J. and **D. Roose**, Load balancing data parallel programs on distributed memory computers 19 (1993) 1199
De Keyser, J., K. Lust and **D. Roose**, Run-time load balancing support for a parallel multiblock Euler/Navier-Stokes code with adaptive refinement on distributed memory computers 20 (1994) 1069
Dellwo, D.R., *see* **Aggarwal, R.** 19 (1993) 1105
Delves, L.M., *see* **Babolian, E.** 12 (1989) 95
Delves, L.M., C.A. Addison and **O.A. Aziz**, The design and implementation of a portable parallel numerical library 20 (1994) 1639
De Man, H.J., *see* **Van Swaaij, M.F.X.B.** 16 (1990) 113
De Matteis, A. and **S. Pagnutti**, A class of parallel random number generators 13 (1990) 193
De Matteis, A. and **S. Pagnutti**, Long-range correlations in linear and non-linear random number generators 14 (1990) 207
Denneau, M., *see* **Kumar, M.** 19 (1993) 1393
Deo, N., *see* **Das, S.K.** 13 (1990) 143
Deo, N., *see* **Das, S.K.** 15 (1990) 179
Deren, W., *see* **Evans, D.J.** 17 (1991) 165
Detert, U. and **G. Hofemann**, CRAY X-MP and Y-MP memory performance 17 (1991) 579
De Werra, D., *see* **Drozdowski, J.B.M.** 20 (1994) 15
Dhall, S.K., *see* **Lakshmivarahan, S.** 19 (1993) 361
Dhrif, H. and **D. Sarkar**, Fuzzy arithmetic on systolic arrays 19 (1993) 1283
Di Caro, G., *see* **Campanini, R.** 19 (1993) 685
Dixit, K.M., The SPEC benchmarks 17 (1991) 1195
Doallo, R. and **E.L. Zapata**, A VLSI systolic architecture for solving DBT-transformed fuzzy clustering problems of arbitrary size 13 (1990) 321
Doallo, R., *see* **Rivera, F.F.** 14 (1990) 51
Dodd, N., Slow annealing versus multiple fast annealing runs – an empirical investigation 16 (1990) 269
Dongarra, J. and **W. Gentzsch**, Benchmarking of high performance computers 17 (1991) 1067
Dongarra, J., *see* **Levine, D.** 17 (1991) 1223
Dongarra, J., M. Furtney, S. Reinhardt and **J. Russell**, Parallel Loops – A test suite for parallelizing compilers: Description and example results 17 (1991) 1247
Dongarra, J., *see* **Sunderam, V.S.** 20 (1994) 531
Dongarra, J.J. and **R.A. van de Geijn**, Reduction to condensed form for the Eigenvalue problem on distributed memory architectures 18 (1992) 973
Dontje, T., T. Lippert, N. Petkov and **K. Schilling**, Statistical analysis of simulation-generated time series: Systolic vs. semi-systolic correlation on the Connection Machine 18 (1992) 575
Doss, N.E., *see* **Skjellum, A.** 20 (1994) 565

Douglas, C.C. and **W.L. Miranker**, Beyond massive parallelism: numerical computation using associative tables 16 (1990) 1
Dowling, M.L., Optimal code parallelization using unimodular transformations 16 (1990) 157
Draper, J.T. and **J. Ghosh**, The M-cache: A message-handling mechanism for multicomputer systems 20 (1994) 1269
Drozdowski, J.B.M., G. Schmidt and **D. de Werra**, Scheduling independent multiprocessor tasks on a uniform k-processor system 20 (1994) 15
Dubey, A., M. Zubair and **C.E. Grosch**, A general purpose subroutine for Fast Fourier Transform on a distributed memory parallel machine 20 (1994) 1697
Duller, A.W.G. and **R. Storer**, Simulation and verification of associative processor arrays 18 (1992) 1403
Dunigan, T.H., Performance of the Intel iPSC/860 and Ncube 6400 hypercubes 17 (1991) 1285
Dunn, S.M., *see* **Varman, P.J.** 15 (1990) 165
Dyksen, W.R., *see* **Bonomo, J.P.** 11 (1989) 187
Dzwinel, W., The search for an optimal multiprocessor interconnection network 17 (1991) 95

Eberlein, P.J., *see* **Mantharam, M.** 19 (1993) 437
Eberlein, P.J., *see* **Mantharam, M.** 19 (1993) 481
Eckardt, H., System performance and execution. of scientific algorithms on the parallel computer PARAWELL 13 (1990) 159
Edmonds, P., E. Chu and **A. George**, Dynamic programming on a shared-memory multiprocessor 19 (1993) 9
Efe, K., P.K. Blackwell, W. Slough and **T. Shiau**, Topological properties of the crossed cube architecture 20 (1994) 1763
Eğecioğlu, Ö. and **Ç.K. Koç**, A parallel algorithm for generating discrete orthogonal polynomials 18 (1992) 649
Eisenstat, S.C., Comments on scheduling parallel iterative methods on multiprocessor systems II (*Short Communication*) 11 (1989) 241
El-Amawy, A., *see* **Barada, H.** 19 (1993) 33
El-Amawy, A. and **R. Raja**, Split sequence generation algorithms for efficient identification of operational subcubes in faulty hypercubes 19 (1993) 789
El Baz, D., Asynchronous implementation of Relaxation and gradient algorithms for convex network flow problems 19 (1993) 1019
El-Horbaty, E.-S.M. and **A.E.-D.H. Mohamed**, A synchronous algorithm for shortest paths on a tree machine 18 (1992) 103
El-Horbaty, S., *see* **Frieze, A.M.** 11 (1989) 151
Elman, H.C., *see* **Zhang, G.** 18 (1992) 1009
Elovici, Y., *see* **Azaria, H.** 19 (1993) 633
Elustondo, P., *see* **Bala, V.** 20 (1994) 445
Ercal, F., *see* **Sadayappan, P.** 13 (1990) 1
Erhard, W. and **A. Grefe**, Improved parallel algorithms for the classification of electroencephalograms (EEGs) on the DAP510 18 (1992) 109
Erhel, J., A. Traynard and **M. Vidrascu**, An element-by-element preconditioned conjugate gradient method implemented on a vector computer 17 (1991) 1051
Escaig, Y. and **W. Oed**, Analysis tools for Micro- and Autotasking programs on CRAY multiprocessor systems (Short communication) 17 (1991) 1425
Eskow, E. and **R.B. Schnabel**, Mathematical modeling of a parallel global optimization algorithm 12 (1989) 315
Essah, W.A., *see* **Boffey, T.B.** 19 (1993) 609
Evans, D.G., *see* **Morris, D.** 15 (1990) 247
Evans, D.G., *see* **Morris, D.** 18 (1992) 793
Evans, D.J. and **B.B. Sanugi**, A parallel Runge–Kutta integration method (*Short Communication*) 11 (1989) 245
Evans, D.J., A systolic design for the Aitken extrapolation formula (*Short Communication*) 11 (1989) 385
Evans, D.J. and **I. Stojmenović**, On parallel computation of Voronoi diagrams (*Short Communication*) 12 (1989) 121
Evans, D.J. and **K. Margaritis**, Systolic designs for eigenvalue- eigenvector computations using matrix powers 14 (1990) 77

Evans, D.J., A parallel sorting–merging algorithm for tightly coupled multiprocessors 14 (1990) 111
Evans, D.J., *see* **Margaritis, K.** 15 (1990) 227
Evans, D.J. and **W.S. Yousif**, The implementation of the explicit block iterative methods on the Balance 8000 parallel computer 16 (1990) 81
Evans, D.J., *see* **Megson, G.M.** 16 (1990) 191
Evans, D.J. and **C. Li**, Successive underrelaxation (SUR) and generalised conjugate gradient (GCG) methods for hyperbolic difference equations on a parallel computer 16 (1990) 207
Evans, D.J., *see* **Megson, G.M.** 16 (1990) 253
Evans, D.J., M. Adamopoulos, S. Kortesis and **K. Tsouros**, Searching sets of properties with neural networks 16 (1990) 279
Evans, D.J. and **M.D. Levin**, A matrix-squaring variant of the power method on the DAP 17 (1991) 49
Evans, D.J., *see* **Wheat, M.** 17 (1991) 101
Evans, D.J. and **W. Deren**, An asynchronous parallel algorithm for solving a class of nonlinear simultaneous equations 17 (1991) 165
Evans, D.J., *see* **Levin, M.D.** 17 (1991) 591
Evans, D.J. and **S. Chikohora**, The Alternating Group Explicit (AGE) method on a transputer network 17 (1991) 833
Evans, D.J., The parallel AGE method for the elliptic problem in two dimensions 17 (1991) 925
Evans, D.J., *see* **Wheat, M.** 17 (1991) 1035
Evans, D.J., *see* **Wheat, M.** 18 (1992) 91
Evans, D.J., A systolic array design for matrix system solution by the symmetric bordering method 18 (1992) 195
Evans, D.J., *see* **Margaritis, K.G.** 18 (1992) 325
Evans, D.J., *see* **Megson, G.M.** 18 (1992) 355
Evans, D.J. and **M. Gušev**, Implementation of folding transformations on linear VLSI processor arrays 18 (1992) 525
Evans, D.J., *see* **Bekakos, M.P.** 18 (1992) 879
Evans, D.J., *see* **Tout, K.R.** 18 (1992) 913
Evans, D.J., *see* **Gušev, M.** 18 (1992) 997
Evans, D.J., *see* **Tasič, J.** 18 (1992) 1053
Evans, D.J. and **C.R. Wan**, Parallel direct solution for *P*-cyclic matrix systems 19 (1993) 79
Evans, D.J., *see* **Mohd-Saman, M.Y.** 19 (1993) 197
Evans, D.J., *see* **Wan, C.R.** 19 (1993) 303
Evans, D.J., *see* **Bekakos, M.P.** 19 (1993) 545
Evans, D.J., *see* **Spaletta, G.** 19 (1993) 563
Evans, D.J. and **W.U.N. Butt**, Dynamic load balancing using task-transfer probabilities 19 (1993) 897
Evans, D.J., *see* **Gušev, M.** 19 (1993) 1177
Evans, D.J. and **M. Gusev**, New linear systolic arrays for digital filters and convolution 20 (1994) 29
Evans, D.J., *see* **Calinescu, R.** 20 (1994) 77
Evans, D.J. and **W.U.N. Butt**, Load balancing with network partitioning using host groups 20 (1994) 325
Evans, D.J. and **W.S. Yousif**, The solution of unsymmetric tridiagonal Toeplitz systems by the strides reduction algorithm 20 (1994) 787
Evans, D.J., *see* **Wan, C.R.** 20 (1994) 903
Evans, D.J. and **E. Galligani**, A parallel additive preconditioner for conjugate gradient method for $AX + XB = C$ 20 (1994) 1055
Evans, D.J., *see* **Pena, T.F.** 20 (1994) 1129
Evans, D.J., *see* **Yalamov, P.** 20 (1994) 1175
Ewinger, W., O. Haan, E. Haupenthal and **C. Siemers**, Modelling and measurement of memory access in SIEMENS VP supercomputers 11 (1989) 361
Exum, M.R. and **J.L. Gaudiot,** Network design and allocation considerations in the Hughes data-flow machine 13 (1990) 17

Fang, M.-Y., *see* **Chen, W.-T.** 17 (1991) 983
Fang, Z., *see* **Li, X.** 11 (1989) 275

Faraboschi, P., *see* **De Gloria, A.** 17 (1991) 969
Faraboschi, P., *see* **De Gloria, A.** 18 (1992) 57
Faraboschi, P., *see* **De Gloria, A.** 19 (1993) 163
Farrag, A.A., Tolerating faulty edges in a multi-dimensional mesh 20 (1994) 1289
Farrell, P.A., *see* **Buoni, J.J.** 19 (1993) 925
Feitelson, D.G., Deadlock detection without wait-for graphs 17 (1991) 1377
Feng, W.-S., *see* **Shih, P.-H.** 17 (1991) 229
Fernandes, P. and **P. Girdinio**, A new storage scheme for an efficient implementation of the sparse matrix-vector product 12 (1989) 327
Ferreira, A., *see* **Dehne, F.** 20 (1994) 1369
Ferreira, A.G., *see* **Dehne, F.** 15 (1990) 201
Filin, A.G. and **M.A. Frumkin**, A systolic array for inversion of a finite Radon transform 18 (1992) 85
Fischer, C.F., *see* **Bentley, M.** 18 (1992) 1023
Fischer, D., On superlinear speedups 17 (1991) 695
Fischer, H., Automatic differentiation: Parallel computation of function, gradient, and Hessian matrix 13 (1990) 101
Fish, P.J., *see* **Ruano, M.G.** 19 (1993) 463
Flatt, H.P. and **K. Kennedy**, Performance of parallel processors 12 (1989) 1
Fleischmann, G., M. Gente, F. Hofmann and **G. Bolch**, Performance analysis of parallel programs based on model calculations 20 (1994) 1583
Fleming, P.J., *see* **Ruano, M.G.** 19 (1993) 463
Flower, J. and **A. Kolawa**, Express is not just a message passing system. Current and future directions in Express 20 (1994) 597
Foresti, S., S. Hassanzadeh, H. Murakami and **V. Sonnad**, Parallel rapid operator for iterative finite element solvers on a shared memory machine 19 (1993) 1
Fraigniaud, P., S. Miguet and **Y. Robert,** Scattering on a ring of processors (*Short Communication*) 13 (1990) 377
Fraigniaud, P., *see* **Cosnard, M.** 15 (1990) 75
Francis, R.S. and **L.J.H. Pannan**, A parallel partition for enhanced parallel QuickSort 18 (1992) 543
Francomano, E., A. Pecorella and **A. Tortorici Macaluso**, Parallel experience on the inverse matrix computation 17 (1991) 907
Freeman, T.L., Calculating polynomial zeros on a local memory parallel computer 12 (1989) 351
Freeman, T.L. and **M.K. Bane**, Asynchronous polynomial zero-finding algorithms 17 (1991) 673
Frieder, O., *see* **Topkar, V.** 17 (1991) 845
Friedman, M.B., *see* **Aggarwal, R.** 19 (1993) 1105
Friesen, D.K., *see* **Chan, I.W.** 19 (1993) 973
Frieze, A.M., J. Yadegar, S. El-Horbaty and **D. Parkinson**, Algorithms for assignment problems on an array processor 11 (1989) 151
Frommer, A., *see* **Block, U.** 14 (1990) 61
Frumkin, M.A., *see* **Filin, A.G.** 18 (1992) 85
Frye, D., *see* **Bala, V.** 20 (1994) 445
Fujimoto, R.M., *see* **Rajopadhye, S.V.** 14 (1990) 163
Funabiki, N. and **Y. Takefuji**, A parallel multi-layer channel router on the HVH model 19 (1993) 63
Furtney, M., *see* **Dongarra, J.** 17 (1991) 1247

Gabber, E., *see* **Averbuch, A.** 15 (1990) 61
Gai, S., *see* **Balboni, G.P.** 19 (1993) 177
Galligani, E., *see* **Evans, D.J.** 20 (1994) 1055
Gan, Q., Q. Yang and **C. Hu**, Parallel all-row preconditioned interval linear solver for nonlinear equations on multiprocessors 20 (1994) 1249
Gao, F. and **B.N. Parlett**, A note on communication analysis of parallel sparse Cholesky factorization on a hypercube 16 (1990) 59
Gao, G.R., Exploiting fine-grain parallelism on dataflow architectures 13 (1990) 309
Garbey, M. and **D. Levine**, Massively parallel computation of conservation laws 16 (1990) 293

García, I., J.J. Merelo, J.D. Bruguera and **E.L. Zapata**, Parallel quadrant interlocking factorization on hypercube computers 15 (1990) 87
Garcia, J.M., *see* **Dantas De Melo, J.** 13 (1990) 261
Gärtel, U., W. Joppich and **A. Schüller**, Parallelizing the ECMWF's weather forecast program: the 2D case 19 (1993) 1413
Gärtel, U., W. Joppich and **A. Schüller**, First results with a parallelized 3D weather prediction code 19 (1993) 1427
Gastaldo, M., *see* **Dehne, F.** 16 (1990) 75
Gaudiot, J.L., *see* **Exum, M.R.** 13 (1990) 17
Gear, C.W., *see* **Chronopoulos, A.T.** 11 (1989) 37
Gehrke, E., *see* **Bader, G.** 17 (1991) 1397
Geiger, A., Parallel CFD '91 18 (1992) 117
Geist, G.A., and **G.J. Davis**, Finding eigenvalues and eigenvectors. of unsymmetric matrices using a distributed-memory multiprocessor 13 (1990) 199
Geist, G.A., *see* **Sunderam, V.S.** 20 (1994) 531
Gelernter, D., *see* **Carriero, N.J.** 20 (1994) 633
Gente, M., *see* **Fleischmann, G.** 20 (1994) 1583
Gentzsch, W., *see* **Dongarra, J.** 17 (1991) 1067
George, A., *see* **Chu, E.** 11 (1989) 55
George, A., *see* **Chu, E.** 18 (1992) 1
George, A., *see* **Edmonds, P.** 19 (1993) 9
George, A., *see* **Chu, E.** 19 (1993) 243
Gerasoulis, A., *see* **Yang, T.** 19 (1993) 1321
Gerling, R.W., *see* **Jakobs, A.** 19 (1993) 1063
Gerteisen, E.A., Preliminary performance results of the massive parallel Aircraft Euler Method 20 (1994) 1675
Getov, V.S., *see* **Addison, C.A.** 20 (1994) 1653
Ghosh, J., *see* **Draper, J.T.** 20 (1994) 1269
Gilbert, J.R. and **H. Hafsteinsson**, Parallel symbolic factorization of sparse linear systems 14 (1990) 151
Giloi, W.K., The SUPRENUM supercomputer: Goals, achievements, and lessons learned 20 (1994) 1407
Giloi, W.K., Parallel supercomputer architectures and their programming models 20 (1994) 1443
Girdinio, P., *see* **Fernandes, P.** 12 (1989) 327
Giusti, G., *see* **Campanini, R.** 19 (1993) 685
Gladwell, I. and **R.I. Hay**, Vector- and parallelisation of ODE BVP codes 12 (1989) 343
Gladwell, I., *see* **Paprzyck, M.** 17 (1991) 133
Gladwell, I., *see* **Paprzycki, M.** 19 (1993) 651
Glasgow, J., M. Jenkins, C. McCrosky and **H. Meijer**, Expressing parallel algorithms in Nial 11 (1989) 331
Gohberg, I., I. Koltracht, A. Averbuch and **B. Shoham**, Timing analysis of a parallel algorithm for Toeplitz matrices on a MIMD parallel machine 17 (1991) 563
Goles, E. and **M. Kiwi**, A lower bound on the computational complexity of the *QR* decomposition on a shared memory SIMD computer 18 (1992) 345
Gordissky, B., *see* **Averbuch, A.** 15 (1990) 61
Goto, E., *see* **Spee, P.** 18 (1992) 1349
Grandinetti, L., *see* **Conforti, D.** 18 (1992) 31
Grassl, C.M., Parallel performance of applications on supercomputers 17 (1991) 1257
Grefe, A., *see* **Erhard, W.** 18 (1992) 109
Gregory, S., *see* **Chalmers, A.G.** 19 (1993) 343
Grosch, C.E., *see* **Zubair, M.** 18 (1992) 1223
Grosch, C.E., *see* **Dubey, A.** 20 (1994) 1697
Gu, Q.P. and **T. Takaoka**, A sharper analysis of a parallel algorithm for the all pairs shortest path problem 16 (1990) 61
Guerra, C. and **R. Melhem**, Synthesis of systolic algorithm design 12 (1989) 195
Guerrini, C., *see* **Montefusco, L.B.** 17 (1991) 253
Gupta, A., *see* **Rothberg, E.** 18 (1992) 719
Gupta, A.K. and **S.E. Hambrusch**, Load balanced tree embeddings 18 (1992) 595
Gupta, S.N., *see* **Zubair, M.** 18 (1992) 1223

Gušev, M., *see* **Evans, D.J.** 18 (1992) 525
Gušev, M. and **J. Tasič**, Comparative analysis of methods for broadcast elimination 18 (1992) 857
Gušev, M. and **D.J. Evans**, VLSI processor array IPS cells 18 (1992) 997
Gušev, M., *see* **Tasič, J.** 18 (1992) 1053
Gušev, M. and **D.J. Evans**, New linear systolic arrays for the string comparison algorithm 19 (1993) 1177
Gusev, M., *see* **Evans, D.J.** 20 (1994) 29
Gustafson, J., *see* **Aluru, S.** 18 (1992) 839
Gustafson, J.L., *see* **Sun, X.-H.** 17 (1991) 1093
Gutheil, I. and **W. Krotz-Vogel**, Performance of a parallel matrix multiplication routine on Intel iPSC/860 20 (1994) 953

Haan, O. *see* **Ewinger, W.** 11 (1989) 361
Haderle, D.J., *see* **Varman, P.J.** 15 (1990) 165
Häfner, H., *see* **Schönauer, W.** 17 (1991) 1131
Hafsteinsson, H., *see* **Gilbert, J.R.** 14 (1990) 151
Hagemann, J., Combinatorial structures for multiprocessor-systems 17 (1991) 699
Hajj , I.N. and **S. Skelboe**, A multilevel parallel solver for block tridiagonal and banded linear systems 15 (1990) 21
Hake, J.-F. and **W. Homberg**, The impact of memory organization on the performance of matrix calculations 17 (1991) 311
Hake, J.-Fr., Parallel Computing 89 (*Conference Report*) 12 (1989) 387
Hambrusch, S.E., *see* **Gupta, A.K.** 18 (1992) 595
Hancu, M.V.A., K. Iwasaki, Y. Sato and **M. Sugie**, Experimental results on the error detection capability of a concurrent test architecture for massively-parallel computers 18 (1992) 1079
Hanson, F.B., J.-D. Mei, C. Tier and **H. Xu**, PDAC: A data parallel algorithm for the performance analysis of closed queueing networks 19 (1993) 1345
Hanxleden, R.V. and **L.R. Scott**, Correctness and determinism of Parallel Monte Carlo Processes 18 (1992) 121
Harper, P., *see* **Samad, T.** 16 (1990) 287
Hart, L. and **S. McCormick**, Asynchronous multilevel adaptive methods for solving partial differential equations on multiprocessors: Basic ideas 12 (1989) 131
Hassanzadeh, S., *see* **Foresti, S.** 19 (1993) 1
Hasselbring, W., Celip: a cellular language for image processing 14 (1990) 99
Hassenklover, A.-L., *see* **Dehne, F.** 12 (1989) 221
Haupenthal, E., *see* **Ewinger, W.** 11 (1989) 361
Hay, R.I., *see* **Gladwell, I.** 12 (1989) 343
Hayes, L., *see* **Khan, B.** 18 (1992) 1335
Hebeker, F.-K., Parallel CFD '93 19 (1993) 1431
Heermann, D.W. and **A.N. Burkitt,** Parallelization of the Ising model and its performance evaluation 13 (1990) 345
Hege, H.-C. and **R. Knecht**, Parallel Computing 91 18 (1992) 473
Helgaon, R.V., *see* **Barr, R.S.** 12 (1989) 45
Helin, J., *see* **Burg, H.C.** 18 (1992) 467
Hempel, R., *see* **Bomans, L.** 15 (1990) 119
Hempel, R., *see* **Calkin, R.** 20 (1994) 615
Hempel, R., Application programming interfaces for SUPRENUM 20 (1994) 1519
Henderson, M.E. and **W.L. Miranker**, Synergy in parallel algorithms 11 (1989) 17
Hendrickson, B., Parallel QR factorization using the torus-wrap mapping 19 (1993) 1259
Hey, A.J.G., The Genesis distributed memory benchmarks 17 (1991) 1275
Hey, A.J.G., *see* **Addison, C.A.** 20 (1994) 1653
Hey, T., The Genesis Esprit project – An overview 20 (1994) 1605
Heydorn, S. and **P. Weidner**, Optimization and performance analysis of thinning algorithms on parallel computers 17 (1991) 17
Higham, N.J. and **P. Papadimitriou**, A parallel algorithm for computing the polar decomposition 20 (1994) 1161
Hill, J.M.D., Parallel lexical analysis and parsing on the AMT distributed array processor 18 (1992) 699

Hiromoto, R., B.R. Wienke and **R.G. Brickner**, The performance of asynchronous iteration schemes applied to the linearized Boltzmann transport equation 18 (1992) 241
Tsalides, Ph., *see* **Adamides, E.** 11 (1989) 163
Ho, A., *see* **Bala, V.** 20 (1994) 445
Ho, C.-T., *see* **Bala, V.** 20 (1994) 445
Ho, H.-F., *see* **Chen, G.-H.** 13 (1990) 235
Hockney, R., Performance parameters and benchmarking of supercomputers 17 (1991) 1111
Hockney, R.W. and **E.A. Carmona**, Comparison of communications on the Intel iPSC/860 and Touchstone Delta 18 (1992) 1067
Hockney, R.W., The communication challenge for MPP: Intel Paragon and Meiko CS-2 (*Short communication*) 20 (1994) 389
Hockney, R.W., *see* **Addison, C.A.** 20 (1994) 1653
Hodges, R.E., *see* **Wu, C.-H.** 17 (1991) 821
Hofemann, G., *see* **Detert, U.** 17 (1991) 579
Hoffmann, K.-H. and **J. Zou**, Parallel efficiency of domain decomposition methods 19 (1993) 1375
Hofmann, F., *see* **Schreiber, T.** 20 (1994) 63
Hofmann, F., *see* **Fleischmann, G.** 20 (1994) 1583
Holey, J.A. and **O.H. Ibarra**, Iterative algorithms for the planar convex hull problem on mesh-connected arrays 18 (1992) 281
Holstein-Rathlou, N.-H., *see* **Bohr, H.** 12 (1989) 113
Homberg, W., *see* **Hake, J.-F.** 17 (1991) 311
Homewood, M., *see* **Beecroft, J.** 20 (1994) 1627
Hong, T.-P. and **S.-S. Tseng**, Parallel perceptron learning on a single-channel broadcast communication model 18 (1992) 133
Hong, T.-P. and **S.-S. Tseng**, An optimal parallel perceptron learning algorithm for a large training set (*Short communication*) 20 (1994) 347
Honjou, N., K. Ohtsuki, M. Sekiya and **F. Sasaki**, A parallelization technique for the speedup of configuration interaction computing 17 (1991) 297
Hoppe, H.-C., *see* **Calkin, R.** 20 (1994) 615
Horiguchi, S., Hybrid systolic sorters 17 (1991) 997
Horng, M.S., D.J. Chen and **K.-L. Ku**, Parallel routing algorithms for incomplete hypercube interconnection networks 20 (1994) 1739
Horng, S.J., Computing dominators on a cube-connected machine 19 (1993) 713
Horton, G. and **R. Knirsch**, A time-parallel multigrid-extrapolation method for parabolic partial differential equations 18 (1992) 21
Horton, G., A multi-level diffusion method for dynamic load balancing 19 (1993) 209
Hossfeld, F., R. Knecht and **W.E. Nagel**, Multitasking: Experience with applications on a CRAY X-MP 12 (1989) 259
Hotop, H.-J., New Kalman filter algorithms based on orthogonal transformations for serial and vector computers 12 (1989) 233
Houle, J.-L., *see* **Audet, D.** 18 (1992) 149
Hoyle, B.S., *see* **Wiegand, F.** 17 (1991) 791
Hsieh, C.M., *see* **Chu, Y.P.** 18 (1992) 983
Hsieh, H.-F., *see* **Hsu, S.-C.** 18 (1992) 377
Hsu, L.-H., P.-F. Wang and **C.-T. Wu**, Parallel algorithms for finding the most vital edge with respect to minimum spanning tree 18 (1992) 1143
Hsu, S.-C., H.-F. Hsieh and **S.-T. Huang**, A fully-pipelined systolic algorithm for finding bridges on an undirected connected graph 18 (1992) 377
Hu, C., *see* **Gan, Q.** 20 (1994) 1249
Hu, S.-H. and **H.-L. Chen**, An effective routing algorithm in incomplete hypercubes 20 (1994) 1721
Hu, Y.F. and **R.J. Blake**, Numerical experiences with partitioning of unstructured meshes 20 (1994) 815
Huang, J.-H. and **L. Kleinrock**, Optimal parallel merging and sorting algorithms using $\sqrt{n}$ processors without memory contention 14 (1990) 89
Huang, J.-H. and **L. Kleinrock**, Distributed selectsort sorting algorithms on broadcast communication networks 16 (1990) 183
Huang, S.-T., *see* **Hsu, S.-C.** 18 (1992) 377

Huang, T.-C., J.-F. Wang, C.-S. Yang and **J.-Y. Lee**, Graph theoretic characterization and reliability of the generalized Boolean n-cube network (*Short Communication*) 12 (1989) 375
Huang, T.-Y. and **J.-L.C. Wu**, Alternate resolution strategy in multistage interconnection networks 20 (1994) 887
Huang, T.-Y., *see* **Wu, J.-L.C.** 20 (1994) 1041
Huang, Y. and **Y. Paker**, A parallel FFT algorithm for transputer networks 17 (1991) 895
Hung, Y.-C. and **G.-H. Chen**, Distributed algorithms for the quickest path problem 18 (1992) 823
Hurley, S., Taskgraph mapping using a genetic algorithm: A comparison of fitness functions (*Short communication*) 19 (1993) 1313
Hußlein, Th., *see* **Kleis, U.** 20 (1994) 399
Hutchinson, D. and **B.M.S. Khalaf**, Parallel algorithms for solving initial value problems: front broadening and embedded parallelism 17 (1991) 957
Hutchinson, D., *see* **Khalaf, B.M.S.** 18 (1992) 661
Hwang, S.-Y., *see* **Wong, Y.-C.** 19 (1993) 807

Ibarra, L. and **D. Richards**, Efficient parallel graph algorithms based on open ear decomposition 19 (1993) 873
Ibarra, O.H., *see* **Holey, J.A.** 18 (1992) 281
Inoue, K., *see* **Ohmaki, K.** 11 (1989) 1
Irwin, G., *see* **Bala, V.** 20 (1994) 445
Ismail, M.A., *see* **Zapata, E.L.** 11 (1989) 291
Ito, K., *see* **Ohmaki, K.** 11 (1989) 1
Ito, T., *see* **Ohmaki, K.** 11 (1989) 1
Iwasaki, K., *see* **Hancu, M.V.A.** 18 (1992) 1079
Iyer, B.R., *see* **Varman, P.J.** 15 (1990) 165

Jacobs, P.W.M., *see* **Moscinski, J.** 11 (1989) 117
Jain, A. and **N.S. Chaudhari**, Efficient parallel recognition of context-free languages 20 (1994) 1303
Jain, M., *see* **Chandra, S.** 19 (1993) 595
Jakobs, A. and **R.W. Gerling**, Scaling aspects for the performance of parallel algorithms (*Short communication*) 19 (1993) 1063
Janežič, D., *see* **Trobec, R.** 19 (1993) 1029
Jang, J.-H., *see* **Chen, G.-H.** 13 (1990) 111
Jang, J.-H., *see* **Chen, G.-H.** 18 (1992) 811
Jayakumar, R., *see* **Zhang, C.N.** 19 (1993) 745
Jenkins, M., *see* **Glasgow, J.** 11 (1989) 331
Jensen, K.S., *see* **Bohr, H.** 12 (1989) 113
Jeong, C.-S. and **M.-H. Kim**, Fast parallel simulated annealing for traveling salesman problem on SIMD machines with linear interconnections 17 (1991) 221
Jeong, C.-S., Parallel Voronoi diagram in L_1 (L_∞) metric on a mesh-connected computer 17 (1991) 241
Jeong, C.-S., An improved parallel algorithm for constructing Voronoi diagram on a mesh-connected computer 17 (1991) 505
Jeong, C.-S., J.-J. Choi and **D.-T. Lee**, Parallel enclosing rectangle on SIMD machines 18 (1992) 221
Jerebic, I., *see* **Trobec, R.** 19 (1993) 1029
Johnsson, S.L., *see* **Olsson, P.** 14 (1990) 1
Johnsson, S.L. and **R.L. Krawitz**, Cooley–Tukey FFT on the Connection Machine 18 (1992) 1201
Johnsson, S.L., Minimizing the communication time for matrix multiplication on multiprocessors 19 (1993) 1235
Johnsson, S.L., *see* **Mathur, K.K.** 20 (1994) 919
Jones, M.T. and **P.E. Plassmann**, Scalable iterative solution of sparse linear systems 20 (1994) 753
Joppich, W., *see* **Gärtel, U.** 19 (1993) 1413
Joppich, W., *see* **Gärtel, U.** 19 (1993) 1427
Jordan, H.F., *see* **Arenstorf, N.S.** 12 (1989) 157

Jou, I.C., Linear rotation based algorithm and systolic architecture for solving linear system equations 11 (1989) 367
Jwo, J.-S., *see* **Lakshmivarahan, S.** 19 (1993) 361

Kalamboukis, T.Z., The symmetric tridiagonal eigenvalue problem on a transputer network 15 (1990) 101
Kalamboukis, T.Z., A parallel algorithm for the dense symmetric eigenvalue problem on a transputer array 18 (1992) 207
Kamath, C. and **S. Weeratunga**, Implementation of two projection methods on a shared memory multiprocessor: DEC VAX 6240 16 (1990) 375
Kanada, Y., A method of vector processing for shared symbolic data 19 (1993) 1155
Karoui-Sahtout, F., *see* **Mahjoub, Z.** 17 (1991) 471
Kaufman, M., *see* **Žerovnik, J.** 18 (1992) 897
Kauranne, T., *see* **Barros, S.R.M.** 20 (1994) 1335
Kauranne, T., Summary of GENESIS work at the European Centre for Medium-range Weather Forecasts (ECMWF) 20 (1994) 1685
Kefalas, P., *see* **Vlahavas, I.** 18 (1992) 1275
Kennedy, K., *see* **Flatt, H.P.** 12 (1989) 1
Kennington, J.L., *see* **Barr, R.S.** 12 (1989) 45
Kentridge, R.W., Neural networks for learning in the real world: representation, reinforcement and dynamics 14 (1990) 405
Kenway, R.D., *see* **Baker, M.A.** 16 (1990) 313
Khalaf, B.M.S., *see* **Hutchinson, D.** 17 (1991) 957
Khalaf, B.M.S. and **D. Hutchinson**, Parallel algorithms for initial value problems: Parallel shooting 18 (1992) 661
Khan, B., L. Hayes and **A.P. Cracknell**, The optimisation of higher order resampling methods in a multiprocessor environment 18 (1992) 1335
Kiehl, M., A vector implementation of an ODE code for multi-point-boundary-value problems 17 (1991) 347
Kiehl, M., Parallel multiple shooting for the solution of initial value problems 20 (1994) 275
Kim, D. and **B.-G. Yi**, A two-pass scheduling algorithm for parallel programs 20 (1994) 869
Kim, H.J. and **J.G. Lee**, A parallel algorithm solving a tridiagonal Toeplitz linear system 13 (1990) 289
Kim, M.-H., *see* **Jeong, C.-S.** 17 (1991) 221
Kim, S.K., Parallel algorithms for planar dominance counting 15 (1990) 241
Kim, S.K. and **A.T. Chronopoulos**, A class of Lanczos-like algorithms implemented on parallel computers 17 (1991) 763
Kindelan, M., *see* **Carnevali, P.** 13 (1990) 35
Kindermann, J. and **A. Linden**, Inversion of neural networks by gradient descent 14 (1990) 277
Kipnis, S., *see* **Bala, V.** 20 (1994) 445
Kishimoto, Y., *see* **Takeda, T.** 18 (1992) 743
Kiwi, M., *see* **Goles, E.** 18 (1992) 345
Kleinrock, L., *see* **Huang, J.-H.** 14 (1990) 89
Kleinrock, L., *see* **Huang, J.-H.** 16 (1990) 183
Kleis, U., J.M. Singer, I. Morgenstern, Th. Hußlein and **H.-G. Matuttis**, Experiences with re-engineering and parallelizing a high-T_c superconductivity code (*Short communication*) 20 (1994) 399
Knecht, R., *see* **Hossfeld, F.** 12 (1989) 259
Knecht, R. and **S. Knecht**, CONPAR 90 – VAPP IV 17 (1991) 113
Knecht, R., *see* **Hege, H.-C.** 18 (1992) 473
Knecht, S., E. Laermann and **W.E. Nagel**, Parallelizing QCD with dynamical fermions on a CRAY multiprocessor system 15 (1990) 3
Knecht, S., *see* **Knecht, R.** 17 (1991) 113
Knirsch, R., *see* **Horton, G.** 18 (1992) 21
Koç, Ç.K., *see* **Eğecioğlu, Ö.** 18 (1992) 649
Koç, Ç.K. and **P. Cappello**, Systolic arrays for integer Chinese remaindering (*Short communication*) 19 (1993) 1303
Köckler, N. and **M. Simon**, Parallel singular value decomposition with cyclic storing 17 (1991) 39

Kodama, Y., *see* **Okamoto, K.** 18 (1992) 901
Kodama, Y., *see* **Sakai, S.** 19 (1993) 125
Kohlhoff, S. and **J. Krone**, Performance evaluation of SUPRENUM for the LINPACK benchmark 18 (1992) 231
Kolawa, A., *see* **Flower, J.** 20 (1994) 597
Kolbezen, P., *see* **Robič, B.** 18 (1992) 297
Kolp, O., Performance estimation for a parallel system with a hierarchical switch network 20 (1994) 1613
Koltracht, I., *see* **Gohberg, I.** 17 (1991) 563
Konig, J.C., *see* **Bampis, E.** 17 (1991) 55
Konopka, M., *see* **Czech, Z.J.** 19 (1993) 961
Kontoghiorghes, E.J. and **M.R.B. Clarke**, Parallel reorthogonalization of the QR decomposition after deleting columns 19 (1993) 703
Kortesis, S., *see* **Evans, D.J.** 16 (1990) 279
Krawitz, R.L., *see* **Johnsson, S.L.** 18 (1992) 1201
Krechel, A., H.-J. Plum and **K. Stüben**, Parallelization and vectorization aspects of the solution of tridiagonal linear systems 14 (1990) 31
Krishnamurthy, E.V., M. Kunde, M. Schimmler and **H. Schröder,** Systolic algorithm for tensor products of matrices: implementation and applications 13 (1990) 301
Krishnamurthy, E.V., *see* **Schröder, H.** 17 (1991) 273
Krishnamurthy, E.V. and **H. Schröder**, Systolic algorithm for multivariable approximation using tensor products of basis functions 17 (1991) 483
Krishnamurthy, E.V., *see* **Schroder, H.** 17 (1991) 493
Krishnamurthy, E.V., *see* **Murthy, V.K.** 18 (1992) 75
Krishnamurthy, E.V. and **C. Pin**, Data parallel evaluation-interpolation algorithm for polynomial matrix inversion 19 (1993) 577
Krishnamurthy, E.V., *see* **Chen, L.** 20 (1994) 297
Krishnamurthy, E.V. and **V. Krishnamurthy**, An ANN model perceptron algorithm using generalized matrix inversion (*Short communication*) 20 (1994) 799
Krishnamurthy, V., *see* **Krishnamurthy, E.V.** 20 (1994) 799
Krishnamurti, R., *see* **Choudhary, A.N.** 19 (1993) 621
Krommer, A.R. and **C.W. Ueberhuber**, Architecture adaptive algorithms 19 (1993) 409
Krone, J., *see* **Kohlhoff, S.** 18 (1992) 231
Krotz-Vogel, W., *see* **Gutheil, I.** 20 (1994) 953
Ku, K.-L., *see* **Horng, M.S.** 20 (1994) 1739
Kumar, M., Y. Baransky and **M. Denneau**, The GF11 parallel computer 19 (1993) 1393
Kumar, M.K., *see* **Kumar, P.S.** 18 (1992) 849
Kumar, M.K., *see* **Kumar, P.S.** 19 (1993) 187
Kumar, P.S., M.K. Kumar and **A. Basu**, A parallel algorithm for elimination tree computation and symbolic factorization 18 (1992) 849
Kumar, P.S., M.K. Kumar and **A. Basu**, Parallel algorithms for sparse triangular system solution 19 (1993) 187
Kumar, P.S., *see* **Chandra, S.** 19 (1993) 595
Kumar, V., *see* **Arvindam, S.** 17 (1991) 1323
Kunde, M., *see* **Krishnamurthy, E.V.** 13 (1990) 301
Kuo, N.-L., *see* **Sheu, J.-P.** 13 (1990) 245
Kurita, G.I., *see* **Takeda, T.** 18 (1992) 743

Laermann, E., *see* **Knecht, S.** 15 (1990) 3
Lageweg, B.J., *see* **Veltman, B.** 16 (1990) 173
Lakshmivarahan, S., J.-S. Jwo and **S.K. Dhall**, Symmetry in interconnection networks based on Cayley graphs of permutation groups: A survey 19 (1993) 361
Lange, T.E., Simulation of heterogeneous neural networks on serial and parallel machines 14 (1990) 287
Larson, J., *see* **Berry, M.** 17 (1991) 1173
Laursen, P.S., Simple approaches to parallel Branch and Bound 19 (1993) 143
Lawrence, R., *see* **Bala, V.** 20 (1994) 445
Leach, R.J., O.M. Atogi and **R.R. Stephen,** The actual complexity of parallel evaluation of low degree polynomials 13 (1990) 73

Leaf, G.K., *see* **Thompson, C.P.** 18 (1992) 449
Lécot, C., An algorithm for generating low discrepancy sequences on vector computers (*Short Communication*) 11 (1989) 113
Lee, D.-L., *see* **Aboelaze, M.** 19 (1993) 497
Lee, D.-T., *see* **Jeong, C.-S.** 18 (1992) 221
Lee, J.G., *see* **Kim, H.J.** 13 (1990) 289
Lee, J.-Y., *see* **Huang, T.-C.** 12 (1989) 375
Lee, R.C.T., *see* **Shih, Z.C.** 13 (1990) 135
Lee, R.C.T., *see* **Shyu, S.J.** 13 (1990) 295
Lee, R.C.T., *see* **Shyu, S.J.** 16 (1990) 343
Lee, W.-P., *see* **Tsay, J.-C.** 20 (1994) 353
Lee, W.-P. and **J.-C. Tsay**, A systolic design for generating permutations in lexicographic order 20 (1994) 775
Lenders, P. and **H. Schröder**, A programmable systolic device for image processing based on mathematical morphology 13 (1990) 337
Lenstra, J.K., *see* **Veltman, B.** 16 (1990) 173
Leung, A.P., *see* **Skjellum, A.** 20 (1994) 565
Leung, Y.-W., On-line fault identification in multistage interconnection networks 19 (1993) 693
Levin, M.D., *see* **Evans, D.J.** 17 (1991) 49
Levin, M.D. and **D.J. Evans**, The inversion of matrices by the double-bordering algorithm on MIMD computers 17 (1991) 591
Levin, S.A., A fully vectorized quicksort 16 (1990) 369
Levine, D., *see* **Garbey, M.** 16 (1990) 293
Levine, D., **D. Callahan** and **J. Dongarra**, A comparative study of automatic vectorizing compilers 17 (1991) 1223
Li, C., *see* **Evans, D.J.** 16 (1990) 207
Li, H.F., *see* **Zhang, C.N.** 19 (1993) 745
Li, J., **A. Brass, D.J. Ward** and **B. Robson**, A study of parallel molecular dynamics algorithms for *N*-body simulations on a transputer system 14 (1990) 211
Li, J.-j., Multiscattering on the Cube-Connected Cycles 20 (1994) 313
Li, L., Systolic computation with fault diagnosis 14 (1990) 234
Li, X. and **Z. Fang**, Parallel clustering algorithms 11 (1989) 275
Li, X., Nearest neighbor classification on two types of SIMD machines 17 (1991) 381
Li, X., **P. Lu, J. Schaeffer, J. Shillington, P. Sze Wong** and **H. Shi**, On the versatility of parallel sorting by regular sampling 19 (1993) 1079
Liang, W.-W., *see* **Chen, G.-H.** 18 (1992) 439
Liao, L.-Z., *see* **Caffey, H.** 19 (1993) 1003
Lilja, D.J., A multiprocessor architecture combining fine-grained and coarse-grained parallelism strategies 20 (1994) 729
Lin, C.J., *see* **Tsay, J.C.** 13 (1990) 119
Lin, C.-J., Parallel generation of permutations on systolic arrays 15 (1990) 267
Lin, F.-C. and **K.-L. Chung**, A cost-optimal parallel tridiagonal system solver 15 (1990) 189
Lin, F.-C., *see* **Lin, Y.-C.** 16 (1990) 273
Lin, R. and **S. Olariu**, A fast cost-optimal parallel algorithm for the lowest common ancestor problem 18 (1992) 511
Lin, S.-H., *see* **Chen, G.-H.** 13 (1990) 235
Lin, Y.-B., Parallel trace-driven simulation for packet loss in finite-buffered voice multiplexers 19 (1993) 219
Lin, Y.-C. and **F.-C. Lin**, Parallel sorting with cooperating heaps in a linear array of processors 16 (1990) 273
Lin, Y.-C., An FP-based tool for the synthesis of regular array algorithms 17 (1991) 457
Lin, Y.-C., Array size anomaly of problem-size independent systolic arrays for matrix-vector multiplication 17 (1991) 515
Lin, Y.-C., New systolic arrays for the longest common subsequence problem 20 (1994) 1323
Linden, A., *see* **Kindermann, J.** 14 (1990) 277
Linke, A., *see* **Altevogt, P.** 19 (1993) 1041
Linn, M.A., *see* **Nagel, W.E.** 17 (1991) 1303
Lippert, T., *see* **Dontje, T.** 18 (1992) 575

Lippert, T., K. Schilling and **N. Petkov**, Quark propagator on the Connection Machine 18 (1992) 1291
Liu, J.W.H., Reordering sparse matrices for parallel elimination 11 (1989) 73
Liu, Z. and **J.-H. You**, Conflict-free routing for BPC-permutations on synchronous hypercubes 19 (1993) 323
Lobry, J., *see* **Daoudi, E.M.** 18 (1992) 1317
Loeff, A., *see* **Bossomaier, T.** 19 (1993) 1129
Lomdahl, P.S., *see* **Beazley, D.M.** 20 (1994) 173
Lonsdale, G. and **A. Schüller**, Multigrid efficiency for complex flow simulations on distributed memory machines 19 (1993) 23
Loots, W. and **T.H.C. Smith**, A parallel three phase sorting procedure for a k-dimensional hypercube and a transputer implementation 18 (1992) 335
Lopez, L. and **T. Politi**, Parallel methods in the numerical treatment of population dynamic models 18 (1992) 767
Lopez, L., Methods based on boundary value techniques for solving parabolic equations on parallel computers 19 (1993) 979
Lotti, G. and **M. Vajteršic**, The application of VLSI Poisson solvers to the biharmonic problem 18 (1992) 11
Louka, B. and **M. Tchuente**, Triangular matrix inversion on systolic arrays 14 (1990) 223
Lozier, D.W. and **R.G. Rehm**, Some performance comparisons for a fluid dynamics code 11 (1989) 305
Lu, M. and **X. Qiao**, Applying parallel computer systems to solve symmetric tridiagonal eigenvalue problems 18 (1992) 1301
Lu, P., *see* **Li, X.** 19 (1993) 1079
Lusk, E.L., *see* **Butler, R.M.** 20 (1994) 547
Lust, K., *see* **De Keyser, J.** 20 (1994) 1069
Lutton, J.-L., *see* **Boissin, N.** 19 (1993) 859

Ma, C.-m., Implementation of a Monte Carlo code on a parallel computer system 20 (1994) 991
Macleod, I., *see* **Chen, L.** 20 (1994) 297
Mahadevan, I. and **L.M. Patnaik**, Performance evaluation of bidirectional associative memory on a transputer-based parallel system 18 (1992) 401
Mahjoub, Z. and **F. Karoui-Sahtout**, Parallel algorithms for redundant precedence relations elimination in task systems 17 (1991) 471
Mainwaring, A., *see* **Tucker, L.W.** 20 (1994) 481
Majewski, B.S., *see* **Czech, Z.J.** 19 (1993) 961
Makino, J., Lagged-Fibonacci random number generators on parallel computers 20 (1994) 1357
Makino, T., Shift-net and power shift-net for parallel processor systems 20 (1994) 1027
Manchek, R., *see* **Sunderam, V.S.** 20 (1994) 531
Manoharan, S. and **N.P. Topham**, A general bound on schedule length for independent tasks 16 (1990) 69
Manoharan, S. and **P. Thanisch**, Assigning dependency graphs onto processor networks 17 (1991) 63
Manson, G.A., *see* **Rabhi, F.A.** 17 (1991) 189
Mantharam, M. and **P.J. Eberlein**, New Jacobi-sets for parallel computations 19 (1993) 437
Mantharam, M. and **P.J. Eberlein**, Block recursive algorithm to generate Jacobi-sets 19 (1993) 481
Margaritis, K., *see* **Evans, D.J.** 14 (1990) 77
Margaritis, K. and **D.J. Evans**, Systolic designs for Bernoulli's method 15 (1990) 227
Margaritis, K.G. and **D.J. Evans**, Systolic implementation of neural networks for searching sets of properties 18 (1992) 325
Maritsas, D.G., *see* **Papaspyropoulos, G.T.** 12 (1989) 359
Marrakchi, M. and **Y. Robert**, Optimal algorithms for Gaussian elimination on an MIMD computer 12 (1989) 183
Marrakchi, M., Optimal parallel scheduling for the 2-steps graph with constant task cost 18 (1992) 169
Marrone, M., *see* **Brugnano, L.** 14 (1990) 191
Mastronardi, N., *see* **Amodio, P.** 19 (1993) 1273
Mathias, P.C., *see* **Das, S.R.** 15 (1990) 277

Mathur, K.K. and **S.L. Johnsson**, Multiplication of matrices of arbitrary shape on a data parallel computer 20 (1994) 919
Matrone, A., P. Schiano and **V. Puoti**, LINDA and PVM: A comparison between two environments for parallel programming 19 (1993) 949
Matsushita, S., *see* **Takeda, T.** 18 (1992) 743
Mattson, T.G., *see* **Carriero, N.J.** 20 (1994) 633
Matuttis, H.-G., *see* **Kleis, U.** 20 (1994) 399
Mayer, G., *see* **Block, U.** 14 (1990) 61
McBryan, O.A., An overview of message passing environments 20 (1994) 417
McBryan, O.A., The SUPRENUM and GENESIS projects 20 (1994) 1389
McBryan, O.A., SUPRENUM: Perspectives and performance 20 (1994) 1427
McCormick, S., *see* **Hart, L.** 12 (1989) 131
McCormick, S. and **D. Quinlan**, Asynchronous multilevel adaptive methods for solving partial differential equations on multiprocessors: Performance results 12 (1989) 145
McCrosky, C., *see* **Glasgow, J.** 11 (1989) 331
McGraw, J.R., *see* **Oldehoeft, R.R.** 13 (1990) 175
Mckenna, M., *see* **Zhang, X.** 14 (1990) 317
McLaren, M., *see* **Barton, E.** 20 (1994) 497
McLaren, M., *see* **Beecroft, J.** 20 (1994) 1627
Medan, Y., *see* **Averbuch, A.** 15 (1990) 61
Megson, G.M., Rank annihilation on a ring of processors 13 (1990) 85
Megson, G.M., A systolic helix for matrix triangularisation with partial pivoting 14 (1990) 199
Megson, G.M. and **D.J. Evans**, Systolic arrays for group explicit methods for solving first order hyperbolic equations 16 (1990) 191
Megson, G.M. and **D.J. Evans**, An orthogonal systolic design for the assignment problem 16 (1990) 253
Megson, G.M. and **D.J. Evans**, More on systolic line drawing 18 (1992) 355
Megson, G.M., O. Brudaru and **D. Comish**, Systolic designs for Aitken's root finding method 18 (1992) 415
Mehrmann, V., Divide and conquer methods for block tridiagonal systems 19 (1993) 257
Mei, J.-D., *see* **Hanson, F.B.** 19 (1993) 1345
Meijer, H., *see* **Glasgow, J.** 11 (1989) 331
Melhem, R., *see* **Guerra, C.** 12 (1989) 195
Menezes, B.L., I.L.M. Ricarte and **R. Thurimella**, Analysis of pipelined external sorting on a reconfigurable message-passing multicomputer 19 (1993) 839
Merelo, J.J., *see* **García, I.** 15 (1990) 87
Mesirov, J.P., *see* **Zhang, X.** 14 (1990) 317
Michallon, P., *see* **Bermond, J.-C.** 18 (1992) 639
Michielse, P., Parallel adaptive reservoir simulation 13 (1990) 359
Miellou, J.C., *see* **Bahi, M.** 19 (1993) 511
Mierendorff, H., H. Schwamborn and **M. Tazza**, Performance modelling of grid problems – a case study on the SUPRENUM system 20 (1994) 1527
Miguet, S., *see* **Fraigniaud, P.** 13 (1990) 377
Miller, J.J.H. and **S. Wang**, On the implementation of a 3-D semiconductor device simulator on distributed-memory MIMD/SIMD machines 20 (1994) 1689
Milovanović, E.I., *see* **Stojčev, M.K.** 13 (1990) 211
Milovanović, E.I., *see* **Milovanović, I.Ž.** 15 (1990) 133
Milovanović, I.Ž., *see* **Stojčev, M.K.** 13 (1990) 211
Milovanović, I.Ž., E.I. Milovanović and **M.K. Stojčev**, An optimal algorithm for Gaussian elimination of band matrices on an MIMD computer 15 (1990) 133
Miranker, W.L., *see* **Henderson, M.E.** 11 (1989) 17
Miranker, W.L., *see* **Douglas, C.C.** 16 (1990) 1
Misra, M., D. Nassimi and **V.K. Prasanna**, Efficient VLSI implementation of iterative solutions to sparse linear systems 19 (1993) 525
Mitra, G., *see* **Andersen, J.** 18 (1992) 675
Modi, J.J., *see* **Theoharis, T.** 14 (1990) 229
Mohamed, A.E.-D.H., *see* **El-Horbaty, E.-S.M.** 18 (1992) 103
Mohd-Saman, M.Y. and **D.J. Evans**, Investigation of a set of Bernstein Tests for the detection of loop parallelization 19 (1993) 197

Moncrieff, D., V.R. Saunders and **S. Wilson**, Parallel processing using macro-tasking in a multi-job environment on a CRAY Y-MP computer 17 (1991) 733
Moncrieff, D., *see* **Nanayakkara, A.** 19 (1993) 1053
Mongenet, C., *see* **Clauss, P.** 18 (1992) 185
Montagne, E., M. Rukoz, R. Surós and **F. Breant**, Modeling optimal granularity when adapting systolic algorithms to transputer based supercomputers (*Short communication*) 20 (1994) 807
Montefusco, L.B. and **C. Guerrini**, A domain decomposition method for scattered data approximation on a distributed memory multiprocessor 17 (1991) 253
Morandi, R. and **F. Sgallari**, Parallel algorithms for the iterative solution of sparse least-squares problems 13 (1990) 271
Morari, M., *see* **Skjellum, A.** 20 (1994) 565
Morgenstern, I., *see* **Kleis, U.** 20 (1994) 399
Morris, D., C.J. Theaker, R. Phillips and **D.G. Evans**, An experimental parallel system (EPS) 15 (1990) 247
Morris, D. and **D.G. Evans**, Modelling distributed and parallel computer systems 18 (1992) 793
Moscinski, J., Z.A. Rycerz and **P.W.M. Jacobs**, Timing results of some internal sorting algorithms on the ETA 10-P (*Short Communication*) 11 (1989) 117
Mosekilde, E., *see* **Bohr, H.** 12 (1989) 113
Moss, W.F., *see* **Zhang, H.** 20 (1994) 1089
Mühlenbein, H., Limitations of multi-layer perceptron networks – steps towards genetic neural networks 14 (1990) 249
Mühlenbein, H., *see* **Śmieja, F.J.** 14 (1990) 261
Mühlenbein, H., M. Schomisch and **J. Born**, The parallel genetic algorithm as function optimizer 17 (1991) 619
Müller, S.M. and **D. Scheerer**, A method to parallelize tridiagonal solvers 17 (1991) 181
Müller-Wichards, D., Problem size scaling in the presence of parallel overhead 17 (1991) 1361
Murakami, H., *see* **Foresti, S.** 19 (1993) 1
Murthy, C.S.R., *see* **Selvakumar, S.** 17 (1991) 1009
Murthy, C.S.R., *see* **Selvakumar, S.** 20 (1994) 835
Murthy, V.K. and **H. Schröder**, Systolic arrays for parallel matrix g-inversion and finding Petri net invariants 11 (1989) 349
Murthy, V.K., *see* **Schroder, H.** 17 (1991) 493
Murthy, V.K., E.V. Krishnamurthy and **P. Chen**, Systolic algorithm for rational interpolation and Padé approximation 18 (1992) 75
Musmanno, R., *see* **Conforti, D.** 18 (1992) 31

Nagel, K. and **A. Schleicher**, Microscopic traffic modeling on parallel high performance computers 20 (1994) 125
Nagel, W.E., *see* **Hossfeld, F.** 12 (1989) 259
Nagel, W.E., Exploiting autotasking on a CRAY Y-MP: an improved software interface to multitasking (*Short Communication*) 13 (1990) 225
Nagel, W.E., *see* **Knecht, S.** 15 (1990) 3
Nagel, W.E. and **M.A. Linn**, Benchmarking parallel programs in a multiprogramming environment: The PAR-Bench system 17 (1991) 1303
Nakata, T., *see* **Takeda, T.** 18 (1992) 743
Nanayakkara, A., D. Moncrieff and **S. Wilson**, Performance of IBM RISC System/6000 workstation clusters in a quantum chemical application (*Short communication*) 19 (1993) 1053
Narahari, B., *see* **Choudhary, A.N.** 19 (1993) 621
Nassimi, D., *see* **Misra, M.** 19 (1993) 525
Natarajan, R., A parallel algorithm for the generalized symmetric eigenvalue problem on a hybrid multiprocessor 14 (1990) 129
Nelson, P.A., Hypercube matrix multiplication 19 (1993) 777
Nelson, V.P., *see* **Wang, C.-J.** 17 (1991) 75
Neusius, C., J. Olszewski and **D. Scheerer**, An efficient distributed thinning algorithm 18 (1992) 47
Ng, E., Supernodal symbolic Cholesky factorization on a local-memory multiprocessor 19 (1993) 153

Nielsen, S.S. and **S.A. Zenios**, Data structures for network algorithms on massively parallel architectures 18 (1992) 1033
Nocetti, D.F.G., *see* **Ruano, M.G.** 19 (1993) 463

Obermayer, K., H. Ritter and **K. Schulten**, Large-scale simulations of self-organizing neural networks on parallel computers: application to biological modelling 14 (1990) 381
Oed, W., *see* **Escaig, Y.** 17 (1991) 1425
Oed, W., Cray Y-MP C90: System features and early benchmark results 18 (1992) 947
Ohmaki, K., S. Tomura, K. Inoue, T. Ito, K. Ito and **K. Torii**, TERM: A parallel executable graph reduction machine for equational language 11 (1989) 1
Ohtsuki, K., *see* **Honjou, N.** 17 (1991) 297
Okamoto, K., Y. Kodama, S. Sakai and **Y. Yamaguchi**, Methodologies in development and testing of the dataflow machine EM-4 18 (1992) 901
Olariu, S., Z. Wen and **W. Zhang**, A faster optimal algorithm for the measure problem 17 (1991) 683
Olariu, S. and **Z. Wen**, An efficient parallel algorithm for multiselection 17 (1991) 689
Olariu, S., *see* **Lin, R.** 18 (1992) 511
Olariu, S., J.L. Schwing and **J. Zhang**, Applications of reconfigurable meshes to constant-time computations 19 (1993) 229
Oldehoeft, R.R. and **J.R. McGraw**, Mixed applicative and imperative programs 13 (1990) 175
O'Leary, D.P. and **P. Whitman**, Parallel QR factorization by Householder and modified Gram-Schmidt algorithms 16 (1990) 99
Oliveira, S., *see* **Sweet, R.A.** 17 (1991) 121
Olivieri, M., *see* **De Gloria, A.** 19 (1993) 163
Olsson, P. and **S.L. Johnsson**, A dataparallel implementation of an explicit method for the three-dimensional compressible Navier–Stokes equations 14 (1990) 1
Olszewski, J., *see* **Neusius, C.** 18 (1992) 47
Orban, G.A., *see* **Tollenaere, T.** 17 (1991) 361
Ortega, M, *see* **Troya, J.M.** 11 (1989) 121
Osiakwan, C.N.K. and **S.G. Akl**, Parallel computation of matchings in trees 17 (1991) 643
Östermark, R. and **M. Saarinen**, Parallel implementation of a VARMAX algorithm 20 (1994) 1711
Otto, J., *see* **Swarztrauber, P.N.** 17 (1991) 607
Otto, P., *see* **Schreiber, T.** 20 (1994) 63
Overill, R.E. and **S. Wilson**, Performance of parallel algorithms for the evaluation of power series 20 (1994) 1205

Pagano, F., G. Parodi and **R. Zunino**, Parallel implementation of associative memories for image classification 19 (1993) 667
Page, R.M.R. and **S.F. Reddaway**, The DAP as a filestore search engine 13 (1990) 369
Pagnutti, S., *see* **De Matteis, A.** 13 (1990) 193
Pagnutti, S., *see* **De Matteis, A.** 14 (1990) 207
Paker, Y., *see* **Huang, Y.** 17 (1991) 895
Pannan, L.J.H., *see* **Francis, R.S.** 18 (1992) 543
Papadimitriou, P., *see* **Higham, N.J.** 20 (1994) 1161
Papaspyropoulos, G.T. and **D.G. Maritsas**, Parallel discrete event simulation with SIMULA 12 (1989) 359
Papatheodorou, T.S. and **Y.G. Saridakis**, Parallel algorithms and architectures for multisplitting iterative methods 12 (1989) 171
Papavassilopoulos, G.P., *see* **Beidas, B.F.** 19 (1993) 281
Paprzyck, M. and **I. Gladwell**, Solving almost block diagonal systems on parallel computers 17 (1991) 133
Paprzycki, M. and **I. Gladwell**, A parallel chopping algorithm for ODE boundary value problems 19 (1993) 651
Park, H., A parallel algorithm for the unbalanced orthogonal Procrustes problem 17 (1991) 913
Park, H., *see* **Van Huffel, S.** 20 (1994) 1107
Parkinson, D., *see* **Frieze, A.M.** 11 (1989) 151
Parkinson, D., *see* **Andersen, J.** 18 (1992) 675
Parlett, B.N., *see* **Gao, F.** 16 (1990) 59

Parodi, G., *see* **Casiccia, P.** 18 (1992) 313
Parodi, G., *see* **Pagano, F.** 19 (1993) 667
Patnaik, L.M., *see* **Das, S.R.** 15 (1990) 277
Patnaik, L.M., *see* **Mahadevan, I.** 18 (1992) 401
Pätzold, O., A. Schüller and **H. Schwichtenberg**, Parallel applications and performance measurements on SUPRENUM 20 (1994) 1571
Paulraj, A., *see* **Boreddy, J.** 15 (1990) 107
Pawley, G.S., C.F. Baillie, E. Tenenbaum and **W. Celmaster**, The BBN Butterfly used to simulate a molecular liquid 11 (1989) 321
Pawley, G.S., *see* **Baillie, C.F.** 12 (1989) 209
Pecorella, A., *see* **Francomano, E.** 17 (1991) 907
Pena, T.F., E.L. Zapata and **D.J. Evans**, Finite element simulation of semiconductor devices on multiprocessor computers 20 (1994) 1129
Perrin, G.R., *see* **Clauss, P.** 18 (1992) 185
Perrin, G.-R., *see* **Violard, E.** 18 (1992) 1167
Peskin, R., *see* **Rivera, F.F.** 14 (1990) 51
Peters, A., Sparse matrix vector multiplication techniques on the IBM 3090 VF 17 (1991) 1409
Peters, F.J., Preface 18 (1992) 1289
Petersen, T., *see* **Bohr, H.** 12 (1989) 113
Petkov, N. and **F. Sloboda**, A bit-level systolic array for digital contour smoothing 12 (1989) 301
Petkov, N., *see* **Dontje, T.** 18 (1992) 575
Petkov, N., *see* **Lippert, T.** 18 (1992) 1291
Pfreundt, F.J., *see* **Struckmeier, J.** 19 (1993) 103
Phillips, C., The performance of the BLAS and LAPACK on a shared memory scalar multiprocessor 17 (1991) 751
Phillips, R., *see* **Morris, D.** 15 (1990) 247
Pierce, P., The NX message passing interface 20 (1994) 463
Pin, C., *see* **Krishnamurthy, E.V.** 19 (1993) 577
Pini, G., A parallel algorithm for the partial eigensolution of sparse symmetric matrices on the CRAY Y-MP 17 (1991) 553
Pirozzi, M.A., The fast numerical solution of mildly nonlinear elliptic boundary value problems on multiprocessors 19 (1993) 1117
Piskoulijski, P.I., Error analysis of parallel algorithm for the solution of a tridiagonal Toeplitz linear system of equations 18 (1992) 431
Plassmann, P.E., *see* **Jones, M.T.** 20 (1994) 753
Plata, O.G., *see* **Zapata, E.L.** 11 (1989) 291
Plum, H.-J., *see* **Krechel, A.** 14 (1990) 31
Politi, T., *see* **Lopez, L.** 18 (1992) 767
Polymenakos, L.C. and **D.P. Bertsekas**, Parallel shortest path auction algorithms 20 (1994) 1221
Porsche, J.L., *see* **Sweet, R.A.** 17 (1991) 121
Prabhu, G.M., *see* **Aluru, S.** 18 (1992) 839
Prasad, S., *see* **Das, S.K.** 13 (1990) 143
Prasad, S., *see* **Das, S.K.** 15 (1990) 179
Prasad, V.V.R. and **C. Siva Ram Murthy**, Downloading node programs/data into hypercubes 17 (1991) 633
Prasanna, V.K., *see* **Misra, M.** 19 (1993) 525
Prasanna Kumar, V.K., *see* **Alnuweiri, H.M.** 12 (1989) 71
Puoti, V., *see* **Matrone, A.** 19 (1993) 949

Qiao, X., *see* **Lu, M.** 18 (1992) 1301
Qiu, K., *see* **Akl, S.G.** 19 (1993) 95
Quatember, B., Concept of a crossbar switch for large-scale multiple processor systems in the field of process control 18 (1992) 1415
Quesnel, D., *see* **Chu, E.** 19 (1993) 243
Quinlan, D., *see* **McCormick, S.** 12 (1989) 145

Rabhi, F.A. and **G.A. Manson**, Divide-and-Conquer and parallel graph reduction 17 (1991) 189
Radicati di Brozolo, G. and **Y. Robert**, Parallel conjugate gradient-like algorithms for solving sparse nonsymmetric linear systems on a vector multiprocessor 11 (1989) 223

Raja, R., *see* **El-Amawy, A.** 19 (1993) 789
Rajopadhye, S.V. and **R.M. Fujimoto**, Synthesizing systolic arrays from recurrence equations 14 (1990) 163
Ramanujam, J., *see* **Sadayappan, P.** 13 (1990) 1
Rao, V.N., *see* **Arvindam, S.** 17 (1991) 1323
Rathjen, B., *see* **Bohr, H.** 12 (1989) 113
Rau-Chaplin, A., *see* **Dehne, F.** 15 (1990) 201
Rau-Chaplin, A., *see* **Dehne, F.** 20 (1994) 1369
Ray, A.K., *see* **Altekar, S.D.** 19 (1993) 823
Reale, F., A tridiagonal solver for massively parallel computer systems 16 (1990) 361
Reddaway, S.F., *see* **Page, R.M.R.** 13 (1990) 369
Rehm, R.G., *see* **Lozier, D.W.** 11 (1989) 305
Reid, D., *see* **Asenov, A.** 20 (1994) 375
Reinhardt, S., *see* **Dongarra, J.** 17 (1991) 1247
Ribbens, C.J., *see* **Chakraborty, A.** 17 (1991) 1385
Ribeiro, C. and **D.E. Baz**, A parallel optimal routing algorithm 18 (1992) 1393
Ricarte, I.L.M., *see* **Menezes, B.L.** 19 (1993) 839
Richards, D., *see* **Ibarra, L.** 19 (1993) 873
Ridella, S., *see* **Corana, A.** 17 (1991) 809
Ridella, S., *see* **De Gloria, A.** 18 (1992) 57
Risset, T., Implementing Gaussian elimination on a matrix-matrix multiplication systolic array 16 (1990) 351
Ritter, H., *see* **Obermayer, K.** 14 (1990) 381
Ritzdorf, H., A. Schüller, B. Steckel and **K. Stüben**, L_iSS – An environment for the parallel multigrid solution of partial differential equations on general 2D domains 20 (1994) 1559
Rivera, F.F., *see* **Zapata, E.L.** 11 (1989) 291
Rivera, F.F., R. Doallo, J.D. Bruguera, E.L. Zapata and **R. Peskin**, Gaussian elimination with pivoting on hypercubes 14 (1990) 51
Robert, Y., *see* **Radicati di Brozolo, G.** 11 (1989) 223
Robert, Y., *see* **Marrakchi, M.** 12 (1989) 183
Robert, Y., *see* **Benaini, A.** 12 (1989) 249
Robert, Y., *see* **Fraigniaud, P.** 13 (1990) 377
Robert, Y., *see* **Benaini, A.** 15 (1990) 211
Robert, Y. and **S.W. Song**, Revisiting cycle shrinking 18 (1992) 481
Robert, Y., *see* **Darte, A.** 20 (1994) 679
Robič, B., P. Kolbezen and **J. Šilc**, Area optimization of dataflow-graph mappings 18 (1992) 297
Robson, B., *see* **Li, J.** 14 (1990) 211
Rolando, C., *see* **Corana, A.** 17 (1991) 809
Roman, J., *see* **Counilh, M.C.** 16 (1990) 239
Roose, D., *see* **Bomans, L.** 15 (1990) 119
Roose, D., *see* **De Keyser, J.** 19 (1993) 1199
Roose, D., *see* **De Keyser, J.** 20 (1994) 1069
Rothberg, E. and **A. Gupta**, Parallel ICCG on a hierarchical memory multiprocessor – Addressing the triangular solve bottleneck 18 (1992) 719
Ruano, M.G., D.F.G. Nocetti, P.J. Fish and **P.J. Fleming**, Alternative parallel implementations of an AR-modified covariance spectral estimator for diagnostic ultrasonic blood flow studies 19 (1993) 463
Rukoz, M., *see* **Montagne, E.** 20 (1994) 807
Russell, J., *see* **Dongarra, J.** 17 (1991) 1247
Ruttan, A., *see* **Buoni, J.J.** 19 (1993) 925
Rycerz, Z.A., *see* **Moscinski, J.** 11 (1989) 117

Saad, Y. and **M.H. Schultz**, Data communication in parallel architectures 11 (1989) 131
Saarinen, M., *see* **Östermark, R.** 20 (1994) 1711
Sack, J.-R., *see* **Dehne, F.** 12 (1989) 221
Sadayappan, P., F. Ercal and **J. Ramanujam**, Cluster partitioning approaches to mapping parallel programs onto a hypercube 13 (1990) 1
Sahni, S., *see* **Cheng, K.H.** 12 (1989) 53

Sakai, S., *see* **Okamoto, K.** 18 (1992) 901
Sakai, S., Y. Kodama and **Y. Yamaguchi**, Design and implementation of a circular omega network in the EM-4 19 (1993) 125
Samad, T. and **P. Harper**, High-order Hopfield and Tank optimization networks 16 (1990) 287
Sanugi, B.B., *see* **Evans, D.J.** 11 (1989) 245
Saridakis, Y.G., *see* **Papatheodorou, T.S.** 12 (1989) 171
Sarkar, D., *see* **Dhrif, H.** 19 (1993) 1283
Sasaki, F., *see* **Honjou, N.** 17 (1991) 2974
Sato, M., *see* **Spee, P.** 18 (1992) 1349
Sato, Y., *see* **Hancu, M.V.A.** 18 (1992) 1079
Saunders, V.R., *see* **Moncrieff, D.** 17 (1991) 733
Saunders, V.R. and **S. Wilson**, "Scavenger" programming for the CRAY X-MP computer 17 (1991) 1025
Savaria, Y., *see* **Audet, D.** 18 (1992) 149
Sawley, M.L. and **C.M. Bergman**, A comparative study of the use of the data-parallel approach for compressible flow calculations 20 (1994) 363
Schaeffer, J., *see* **Li, X.** 19 (1993) 1079
Scheerer, D., *see* **Müller, S.M.** 17 (1991) 181
Scheerer, D., *see* **Neusius, C.** 18 (1992) 47
Schiano, P., *see* **Matrone, A.** 19 (1993) 949
Schilling, K., *see* **Dontje, T.** 18 (1992) 575
Schilling, K., *see* **Lippert, T.** 18 (1992) 1291
Schilling, K., *see* **Suman, H.** 20 (1994) 975
Schimmler, M. and **H. Schröder**, A simple systolic method to find all bridges of an undirected graph 12 (1989) 107
Schimmler, M., *see* **Krishnamurthy, E.V.** 13 (1990) 301
Schimmler, M., Parallel strong orientation on a mesh connected computer — 17 (1991) 657
Schleicher, A., *see* **Nagel, K.** 20 (1994) 125
Schmidt, G., *see* **Drozdowski, J.B.M.** 20 (1994) 15
Schmidt-Voigt, M., Efficient parallel communication with the nCUBE 2S processor 20 (1994) 509
Schnabel, R.B., *see* **Eskow, E.** 12 (1989) 315
Schomisch, M., *see* **Mühlenbein, H.** 17 (1991) 619
Schönauer, W. and **H. Häfner**, Performance estimates for supercomputers: The responsibilities of the manufacturer and of the user 17 (1991) 1131
Schreiber, H., O. Steinhauser and **P. Schuster**, Parallel molecular dynamics of biomolecules 18 (1992) 557
Schreiber, T., P. Otto and **F. Hofmann**, A new efficient parallelization strategy for the *QR* algorithm 20 (1994) 63
Schröder, H., *see* **Murthy, V.K.** 11 (1989) 349
Schröder, H., *see* **Schimmler, M.** 12 (1989) 107
Schröder, H., *see* **Krishnamurthy, E.V.** 13 (1990) 301
Schröder, H., *see* **Lenders, P.** 13 (1990) 337
Schröder, H. and **P. Strazdins**, Program compression on the instruction systolic array 17 (1991) 207
Schröder, H. and **E.V. Krishnamurthy**, Systolic computation of characteristic polynomials of Hessenberg matrices 17 (1991) 273
Schröder, H., *see* **Krishnamurthy, E.V.** 17 (1991) 483
Schroder, H., V.K. Murthy and **E.V. Krishnamurthy**, Systolic algorithm for polynomial interpolation and related problems 17 (1991) 493
Schröder-Preikschat, W., PEACE – A software backplane for parallel computing 20 (1994) 1471
Schüller, A., Parallelizing particle simulations based on the Boltzmann equation 18 (1992) 269
Schüller, A., *see* **Lonsdale, G.** 19 (1993) 23
Schüller, A., *see* **Gärtel, U.** 19 (1993) 1413
Schüller, A., *see* **Gärtel, U.** 19 (1993) 1427
Schüller, A., *see* **Ritzdorf, H.** 20 (1994) 1559
Schüller, A., *see* **Pätzold, O.** 20 (1994) 1571
Schulten, K., *see* **Obermayer, K.** 14 (1990) 381
Schultz, M.H., *see* **Saad, Y.** 11 (1989) 131
Schuster, P., *see* **Schreiber, H.** 18 (1992) 557

Schwamborn, H., *see* **Mierendorff, H.** 20 (1994) 1527
Schwandt, H., Memory access problems in block cyclic reduction on vector computers 17 (1991) 329
Schwichtenberg, H., *see* **Pätzold, O.** 20 (1994) 1571
Schwing, J.L., *see* **Olariu, S.** 19 (1993) 229
Scott, L.R., *see* **Hanxleden, R.V.** 18 (1992) 121
Seguel, J. and **D. Bollman**, Fast digit-reversal algorithms on a shared-memory machine 20 (1994) 93
Sekiya, M., *see* **Honjou, N.** 17 (1991) 297
Selvakumar, S. and **C.S.R. Murthy**, An efficient algorithm for mapping VLSI circuit simulation programs onto multiprocessors 17 (1991) 1009
Selvakumar, S. and **C.S.R. Murthy**, Static task allocation of concurrent programs for distributed computing systems with processor and resource heterogeneity 20 (1994) 835
Senechaud, P., A MIMD implementation of the Buchberger Algorithm for Boolean polynomials 17 (1991) 29
Sergeyev, Y.D., *see* **Strongin, R.G.** 18 (1992) 1259
Sgallari, F., *see* **Morandi, R.** 13 (1990) 271
Sharp, D., M. Cripps and **J. Darlington**, Parallel-architecture-directed program transformation 18 (1992) 1363
Shaw, G.J., *see* **Stewart, A.** 16 (1990) 335
Shen, H., Improved universal k-selection in hypercubes 18 (1992) 177
Shen, H., A high performance interconnection network for multiprocessor systems 19 (1993) 993
Sherman, A.H., *see* **Carriero, N.J.** 20 (1994) 633
Sheu, J.P., Wu, C.-L. and **G.H. Chen**, Selection of the first k largest processes in hypercubes (*Short Communication*) 11 (1989) 381
Sheu, J.-P., *see* **Chen, G.-H.** 13 (1990) 235
Sheu, J.-P., N.-L. Kuo and **G.-H. Chen**, Graph search algorithms and maximum bipartite matching algorithm on the hypercube network model (*Short Communication*) 13 (1990) 245
Shi, H., *see* **Li, X.** 19 (1993) 1079
Shiau, T., *see* **Efe, K.** 20 (1994) 1763
Shiau, Y.-H. and **C.-P. Chung**, Adoptability and effectiveness of microcode compaction algorithms in superscalar processing 18 (1992) 497
Shih, P.-H. and **W.-S. Feng**, An application of neural networks on channel routing problem 17 (1991) 229
Shih, Z.C., R.C.T. Lee and **S.N. Yang**, A parallel algorithm for finding congruent regions 13 (1990) 135
Shillington, J., *see* **Li, X.** 19 (1993) 1079
Shoemaker, C.A., *see* **Caffey, H.** 19 (1993) 1003
Shoham, B., *see* **Gohberg, I.** 17 (1991) 563
Shyu, C.-H., A parallel algorithm for finding a maximum weight clique of an interval graph (*Short Communication*) 13 (1990) 253
Shyu, S.J. and **R.C.T. Lee**, Solving the set cover problem on a supercomputer 13 (1990) 295
Shyu, S.J. and **R.C.T. Lee**, The vectorization of the partition problem 16 (1990) 343
Shyu, S.-J., *see* **Chang, H.K.-C.** 20 (1994) 233
Siemers, C., *see* **Ewinger, W.** 11 (1989) 361
Šilc, J., *see* **Robič, B.** 18 (1992) 297
Simmen, M., Comments on broadcast algorithms for two-dimensional grids 17 (1991) 109
Simon, M., *see* **Köckler, N.** 17 (1991) 39
Singer, A., Implementations of artificial neural networks on the Connection Machine 14 (1990) 305
Singer, J.M., *see* **Kleis, U.** 20 (1994) 399
Singh, V., *see* **Arvindam, S.** 17 (1991) 1323
Siva Ram Murthy, C., *see* **Prasad, V.V.R.** 17 (1991) 633
Skelboe, S., *see* **Hajj , I.N.** 15 (1990) 21
Skjellum, A., S.G. Smith, N.E. Doss, A.P. Leung and **M. Morari**, The design and evolution of *Zipcode* 20 (1994) 565
Sloboda, F., *see* **Petkov, N.** 12 (1989) 301
Sloboda, F., A projection method of the Cimmino type for linear algebraic systems 17 (1991) 435

Slough, W., *see* **Efe, K.** 20 (1994) 1763
Śmieja, F.J. and **H. Mühlenbein**, The geometry of multi-layer perceptron solutions 14 (1990) 261
Smith, S.G., *see* **Skjellum, A.** 20 (1994) 565
Smith, T.H.C., *see* **Loots, W.** 18 (1992) 335
Snir, M., *see* **Bala, V.** 20 (1994) 445
Solchenbach, K., C.-A. Thole and **U. Trottenberg**, GENESIS application software 20 (1994) 1669
Song, J., A distributed-termination experiment on a mesh-connected array of processors 18 (1992) 779
Song, J., A partially asynchronous and iterative algorithm for distributed load balancing 20 (1994) 853
Song, S.W., *see* **Robert, Y.** 18 (1992) 481
Sonnad, V., *see* **Foresti, S.** 19 (1993) 1
Sonza Reorda, M., *see* **Balboni, G.P.** 19 (1993) 177
Sood, A.K., *see* **Topkar, V.** 17 (1991) 845
Sørevik, T., *see* **Storøy, S.** 17 (1991) 523
Spaletta, G. and **D.J. Evans**, The Parallel Recursive Decoupling algorithm for solving tridiagonal linear systems 19 (1993) 563
Spee, P., W.F. Wong, M. Sato and **E. Goto**, Evaluation of the continuation bit in the Cyclic Pipeline Computer 18 (1992) 1349
Spezzano, G., *see* **Conforti, D.** 18 (1992) 31
Stark, S. and **A.N. Beris**, LU decomposition optimized for a parallel computer with a hierarchical distributed memory 18 (1992) 959
Starkweather, T., *see* **Whitley, D.** 14 (1990) 347
Steckel, B., *see* **Ritzdorf, H.** 20 (1994) 1559
Steinhauser, O., *see* **Schreiber, H.** 18 (1992) 557
Stephen, R.R., *see* **Leach, R.J.** 13 (1990) 73
Stewart, A. and **G.J. Shaw**, A parallel multigrid FAS scheme for transputer networks 16 (1990) 335
Stewart, G.W., Communication and matrix computations on large message passing systems 16 (1990) 27
Stewart, G.W., Updating URV decompositions in parallel 20 (1994) 151
Stojčev, M.K., E.I. Milovanović and **I.Ž. Milovanović**, An algorithm for multiplication of concatenated matrices 13 (1990) 211
Stojčev, M.K., *see* **Milovanović, I.Ž.** 15 (1990) 133
Stojmenović, I., *see* **Evans, D.J.** 12 (1989) 121
Storer, R., *see* **Duller, A.W.G.** 18 (1992) 1403
Storøy, S. and **T. Sørevik**, A note on an orthogonal systolic design for the assignment problem 17 (1991) 523
Stpiczyński, P., Parallel Cholesky factorization on orthogonal multiprocessors 18 (1992) 213
Stpiczyński, P., Error analysis of two parallel algorithms for solving linear recurrence systems 19 (1993) 917
Strauss, H. *see* **C.H. Bischof** 13 (1990) 127
Strauss, H., Parallel CFD '92 18 (1992) 1073
Strazdins, P., *see* **Schröder, H.** 17 (1991) 207
Strongin, R.G. and **Y.D. Sergeyev**, Global multidimensional optimization on parallel computer 18 (1992) 1259
Struckmeier, J. and **F.J. Pfreundt**, On the efficiency of simulation methods for the Boltzmann equation on parallel computers 19 (1993) 103
Strumpen, V., *see* **Cap, C.H.** 19 (1993) 1221
Stüben, K., *see* **Krechel, A.** 14 (1990) 31
Stüben, K., *see* **Ritzdorf, H.** 20 (1994) 1559
Sugie, M., *see* **Hancu, M.V.A.** 18 (1992) 1079
Sugla, B., *see* **Carlson, D.A.** 11 (1989) 93
Suman, H. and **K. Schilling**, A comparative study of gauge fixing procedures on the connection machines CM2 and CM5 20 (1994) 975
Sun, X.-H. and **J.L. Gustafson**, Toward a better parallel performance metric 17 (1991) 1093
Sunderam, V.S., G.A. Geist, J. Dongarra and **R. Manchek**, The PVM concurrent computing system: Evolution, experiences, and trends 20 (1994) 531

Suraweera, F. and **P. Bhattacharya**, A parallel cost-optimal algorithm to compute the supremum of max-min powers 18 (1992) 551
Surós, R., *see* **Montagne, E.** 20 (1994) 807
Swarztrauber, P.N., R.A. Sweet, W.L. Briggs, Van Emden Henson and **J. Otto**, Bluestein's FFT for arbitrary N on the hypercube 17 (1991) 607
Sweet, R.A., W.L. Briggs, S. Oliveira, J.L. Porsche and **T. Turnbull**, FFTs and three-dimensional Poisson solvers for hypercubes 17 (1991) 121
Sweet, R.A., *see* **Swarztrauber, P.N.** 17 (1991) 607
Sweeting, D., *see* **Wu, S.S.** 20 (1994) 1
Sze Wong, P., *see* **Li, X.** 19 (1993) 1079

Taillard, E., Robust taboo search for the quadratic assignment problem 17 (1991) 443
Takaoka, T., *see* **Gu, Q.P.** 16 (1990) 61
Takeda, T., K. Tani, T. Tsunematsu, Y. Kishimoto, G.I. Kurita, S. Matsushita and **T. Nakata**, Plasma simulator METIS for tokamak confinement and heating studies 18 (1992) 743
Takefuji, Y., *see* **Funabiki, N.** 19 (1993) 63
Talia, D., *see* **Conforti, D.** 18 (1992) 31
Tani, K., *see* **Takeda, T.** 18 (1992) 743
Tasič, J., *see* **Gušev, M.** 18 (1992) 857
Tasič, J., M. Gušev and **D.J. Evans**, Systolic implementation of preconditioned conjugate gradient method in adaptive transversal filters 18 (1992) 1053
Tazza, M., *see* **Mierendorff, H.** 20 (1994) 1527
Tchuente, M., *see* **Louka, B.** 14 (1990) 223
Temperton, C., Further measurements of $(r_\infty, n_{1/2})$ on the CRAY-1 and CRAY X-MP 11 (1989) 107
Tenenbaum, E., *see* **Pawley, G.S.** 11 (1989) 321
Tervola, P. and **W. Yeung**, Parallel Jacobi algorithm for matrix diagonalisation on transputer networks 17 (1991) 155
Thanailakis, A., *see* **Adamides, E.** 11 (1989) 163
Thanailakis, A., *see* **Adamides, E.D.** 18 (1992) 517
Thanisch, P., *see* **Manoharan, S.** 17 (1991) 63
Theaker, C.J., *see* **Morris, D.** 15 (1990) 247
Theoharis, T. and **J.J. Modi**, Implementation of matrix multiplication on the T-RACK 14 (1990) 229
Thole, C.-A., *see* **Solchenbach, K.** 20 (1994) 1669
Thompson, C.P., W.R. Cowell and **G.K. Leaf**, On the parallelization of an adaptive multigrid algorithm for a class of flow problems 18 (1992) 449
Thuné, M., A partitioning strategy for explicit difference methods 15 (1990) 147
Thuné, M., Straightforward partitioning of composite grids for explicit difference methods 17 (1991) 665
Thuné, M., The partitioning problem for a class of data parallel algorithms 18 (1992) 867
Thurimella, R., *see* **Menezes, B.L.** 19 (1993) 839
Tien, J.-Y. and **W.-P. Yang**, Hierarchical spanning trees and distributing on incomplete hypercubes 17 (1991) 1343
Tier, C., *see* **Hanson, F.B.** 19 (1993) 1345
Tolimieri, R., *see* **Conner, M.** 20 (1994) 215
Tollenaere, T. and **G.A. Orban**, Simulating modular neural networks on message-passing multiprocessors 17 (1991) 361
Tomura, S., *see* **Ohmaki, K.** 11 (1989) 1
Topham, N.P., *see* **Manoharan, S.** 16 (1990) 69
Topkar, V., O. Frieder and **A.K. Sood**, Duplicate removal on Hypercube engines: An experimental analysis 17 (1991) 845
Torii, K., *see* **Ohmaki, K.** 11 (1989) 1
Torralba, A., A systolic array with applications to image processing and wire-routing in VLSI circuits 17 (1991) 85
Tortorici Macaluso, A., *see* **Francomano, E.** 17 (1991) 907
Tout, K.R. and **D.J. Evans**, Parallel forward chaining technique with dynamic scheduling for rule-based expert systems 18 (1992) 913

Traynard, A., *see* **Erhel, J.** 17 (1991) 1051
Trobec, R., I. Jerebic and **D. Janežič**, Parallel algorithm for molecular dynamics integration 19 (1993) 1029
Trottenberg, U., Some remarks on the SUPRENUM project 20 (1994) 1397
Trottenberg, U., *see* **Solchenbach, K.** 20 (1994) 1669
Troya, J.M. and **M. Ortega**, A study of parallel branch-and-bound algorithms with best-bound-first search (*Short Communication*) 11 (1989) 121
Trystram, D., *see* **Bampis, E.** 17 (1991) 55
Trystram, D., *see* **Bermond, J.-C.** 18 (1992) 639
Tsalides, P., *see* **Adamides, E.D.** 18 (1992) 517
Tsay, J.C. and **C.J. Lin**, A systolic design for generating combinations in lexicographic order 13 (1990) 119
Tsay, J.-C. and **W.-P. Lee**, An optimal parallel algorithm for generating permutations in minimal change order (*Short communication*) 20 (1994) 353
Tsay, J.-C., *see* **Lee, W.-P.** 20 (1994) 775
Tseng, S.-S., *see* **Hong, T.-P.** 18 (1992) 133
Tseng, S.-S., *see* **Hong, T.-P.** 20 (1994) 347
Tsouros, K., *see* **Evans, D.J.** 16 (1990) 279
Tsunematsu, T., *see* **Takeda, T.** 18 (1992) 743
Tucker, L.W. and **A. Mainwaring**, CMMD: Active messages on the CM-5 20 (1994) 481
Turnbull, T., *see* **Sweet, R.A.** 17 (1991) 121
Tyrtyshnikov, E.E., New approaches to deriving parallel algorithms 15 (1990) 261

Ueberhuber, C.W., *see* **Krommer, A.R.** 19 (1993) 409
Umeo, H., A design of time-optimum and register-number-minimum systolic convolvers 12 (1989) 285
Umland, T., Parallel sorting revisited 20 (1994) 115

Vaccaro, R., *see* **d'Acierno, A.** 20 (1994) 245
Vaidya, N.H., *see* **Das, S.R.** 15 (1990) 277
Vajteršic, M., *see* **Lotti, G.** 18 (1992) 11
Van de Geijn, R.A., *see* **Dongarra, J.J.** 18 (1992) 973
Van Delft, D.A., *see* **Van Der Vlugt, F.F.** 15 (1990) 47
Van Der Meer, T.H., *see* **Van Der Vlugt, F.F.** 15 (1990) 47
Van der Pas, R.J. and **J.M. van Kats**, Supercomputing Europe '89 (*Conference Report*) 11 (1989) 253
Van der Pas, R.J. and **J.M. van Kats**, Parallelism in a multi-user environment 17 (1991) 285
Van der Steen, A.J., The benchmark of the EuroBen group 17 (1991) 1211
Van Der Vlugt, F.F., D.A. Van Delft, A.F. Bakker and **T.H. Van Der Meer**, The implementation of a 3D Navier-Stokes algorithm on an algorithm oriented processor 15 (1990) 47
Van de Velde, E.F., Data redistribution and concurrency 16 (1990) 125
Van Emden Henson, *see* **Swarztrauber, P.N.** 17 (1991) 607
Van Huffel, S. and **H. Park**, Parallel tri- and bi-diagonalization of bordered bidiagonal matrices 20 (1994) 1107
Van Kats, J.M., *see* **van der Pas, R.J.** 11 (1989) 253
Van Kats, J.M., *see* **van der Pas, R.J.** 17 (1991) 285
Van Swaaij, M.F.X.B., F.V.M. Catthoor and **H.J. De Man**, Deriving ASIC architectures for the Hough transform 16 (1990) 113
Varman, P.J., B.R. Iyer, D.J. Haderle and **S.M. Dunn**, Parallel merging: algorithm and implementation results 15 (1990) 165
Varvarigos, E.A. and **D.P. Bertsekas**, Communication algorithms for isotropic tasks in hypercubes and wraparound meshes 18 (1992) 1233
Veltman, B., B.J. Lageweg and **J.K. Lenstra**, Multiprocessor scheduling with communication delays 16 (1990) 173
Vidrascu, M., *see* **Erhel, J.** 17 (1991) 1051
Violard, E. and **G.-R. Perrin**, PEI: A language and its refinement calculus for parallel programming 18 (1992) 1167

Vlahavas, I. and **P. Kefalas**, A parallel Prolog resolution based on multiple unifications 18 (1992) 1275

Walker, D.W., The design of a standard message passing interface for distributed memory concurrent computers 20 (1994) 657
Waltz, D.L., *see* **Zhang, X.** 14 (1990) 317
Wan, C.R., *see* **Evans, D.J.** 19 (1993) 79
Wan, C.R. and **D.J. Evans**, A systolic array architecture for linear and inverse matrix systems 19 (1993) 303
Wan, C.R. and **D.J. Evans**, A systolic array architecture for QR decomposition of block structured sparse systems 20 (1994) 903
Wang, C.-J. and **V.P. Nelson**, Petri net performance modeling of a modified mesh-connected parallel computer 17 (1991) 75
Wang, C.-J., *see* **Wu, C.-H.** 17 (1991) 821
Wang, C.-M. and **S.-D. Wang**, Structured partitioning of concurrent programs for execution on multiprocessors 16 (1990) 41
Wang, C.-M. and **S.-D. Wang**, A hybrid scheme for efficiently executing nested loops on multiprocessors 18 (1992) 625
Wang, H.-H. and **R.-C. Chang**, A distributed shared memory system with self-adjusting coherence scheme 20 (1994) 1007
Wang, J.-F., *see* **Huang, T.-C.** 12 (1989) 375
Wang, P.-F., *see* **Hsu, L.-H.** 18 (1992) 1143
Wang, S., *see* **Miller, J.J.H.** 20 (1994) 1689
Wang, S.-D., *see* **Wang, C.-M.** 16 (1990) 41
Wang, S.-D., *see* **Wang, C.-M.** 18 (1992) 625
Ward, D.J., *see* **Li, J.** 14 (1990) 211
Waring, L.C. and **M. Clint**, Parallel Gram–Schmidt orthogonalisation on a network of transputers 17 (1991) 1043
Watson, L.T., *see* **Chakraborty, A.** 17 (1991) 1385
Weberpals, H., Architectural approach to the IBM 3090E vector performance 13 (1990) 47
Weberpals, H., Parallel Computing 93 20 (1994) 409
Weeratunga, S., *see* **Kamath, C.** 16 (1990) 375
Wei, J., Parallel asynchronous iterations of least fixed points 19 (1993) 887
Weicker, R.P., A detailed look at some popular benchmarks 17 (1991) 1153
Weidner, P., *see* **Heydorn, S.** 17 (1991) 17
Weidner, P., *see* **Basermann, A.** 18 (1992) 1129
Wen, Z., *see* **Olariu, S.** 17 (1991) 683
Wen, Z., *see* **Olariu, S.** 17 (1991) 689
Wenzhi, L., *see* **Baolin, Z.** 20 (1994) 897
Weston, J.S. and **M. Clint**, Two algorithms for the parallel computation of eigenvalues and eigenvectors of large symmetric matrices using the ICL DAP 13 (1990) 281
Weston, J.S., *see* **Clint, M.** 18 (1992) 1325
Wheat, M. and **D.J. Evans**, Maintenance of shared data structures on tightly coupled multiprocessors 17 (1991) 101
Wheat, M. and **D.J. Evans**, Asynchronous parallel merging 17 (1991) 1035
Wheat, M. and **D.J. Evans**, An efficient parallel sorting algorithm for shared memory multiprocessors 18 (1992) 91
Whitley, D., T. Starkweather and **C. Bogart**, Genetic algorithms and neural networks: optimizing connections and connectivity 14 (1990) 347
Whitman, P., *see* **O'Leary, D.P.** 16 (1990) 99
Wiegand, F. and **B.S. Hoyle**, Development and implementation of real-time ultrasound process tomography using a transputer network 17 (1991) 791
Wienke, B.R., *see* **Hiromoto, R.** 18 (1992) 241
Wienke, B.R., *see* **Altekar, S.D.** 19 (1993) 823
Wilson, S., *see* **Moncrieff, D.** 17 (1991) 733
Wilson, S., *see* **Saunders, V.R.** 17 (1991) 1025
Wilson, S., *see* **Nanayakkara, A.** 19 (1993) 1053
Wilson, S., *see* **Overill, R.E.** 20 (1994) 1205

Witbrock, M. and **M. Zagha**, An implementation of backpropagation learning on GF11, a large SIMD parallel computer 14 (1990) 329
Wolton, I.C., *see* **Addison, C.A.** 20 (1994) 1653
Womble, D.E., R.C. Allen Jr. and **L.S. Baca**, Invariant imbedding and the method of lines for parallel computers 11 (1989) 263
Wong, W.F., *see* **Spee, P.** 18 (1992) 1349
Wong, Y.-C. and **S.-Y. Hwang**, On parallelizing the Dempster–Shafer method using transputer network 19 (1993) 807
Worley, P.H., The effect of multiprocessor radius on scaling 18 (1992) 361
Worlton, J., Toward a taxonomy of performance metrics 17 (1991) 1073
Wright, K., Parallel algorithms for *QR* decomposition on a shared memory multiprocessor 17 (1991) 779
Wright, S.J., Solution of discrete-time optimal control problems on parallel computers 16 (1990) 221
Wu, C.-H., R.E. Hodges and **C.-J. Wang**, Parallelizing the Self-Organizing Feature Map on multiprocessor systems 17 (1991) 821
Wu, C.-L., *see* **Sheu, J.-P.** 11 (1989) 381
Wu, C.-T., *see* **Hsu, L.-H.** 18 (1992) 1143
Wu, J.-L.C., *see* **Huang, T.-Y.** 20 (1994) 887
Wu, J.-L.C. and **T.-Y. Huang**, A new bus contention scheme in S/NET with dynamic priority 20 (1994) 1041
Wu, S.S. and **D. Sweeting**, Heuristic algorithms for task assignment and scheduling in a processor network 20 (1994) 1
Wypior, P., *see* **Calkin, R.** 20 (1994) 615

Xu, H., *see* **Hanson, F.B.** 19 (1993) 1345
Xue, J., Automating non-unimodular loop transformations for massive parallelism 20 (1994) 711

Yadegar, J., *see* **Frieze, A.M.** 11 (1989) 151
Yalamov, P. and **D.J. Evans**, On the forward stability of a modified 'stride of 3' reduction method 20 (1994) 1175
Yamaguchi, Y., *see* **Okamoto, K.** 18 (1992) 901
Yamaguchi, Y., *see* **Sakai, S.** 19 (1993) 125
Yang, C.-Q., *see* **Das, S.K.** 17 (1991) 527
Yang, C.-S., *see* **Huang, T.-C.** 12 (1989) 375
Yang, Q., *see* **Gan, Q.** 20 (1994) 1249
Yang, S.N., *see* **Shih, Z.C.** 13 (1990) 135
Yang, T. and **A. Gerasoulis**, List scheduling with and without communication delays 19 (1993) 1321
Yang, W.-P., *see* **Tien, J.-Y.** 17 (1991) 1343
Yeung, W., *see* **Tervola, P.** 17 (1991) 155
Yi, B.-G., *see* **Kim, D.** 20 (1994) 869
You, J.-H., *see* **Liu, Z.** 19 (1993) 323
Yousif, W.S., *see* **Evans, D.J.** 16 (1990) 81
Yousif, W.S., *see* **Evans, D.J.** 20 (1994) 787
Yuan, S.-M., An efficient fault-tolerant decentralized commit protocol 20 (1994) 101

Zagha, M., *see* **Witbrock, M.** 14 (1990) 329
Zapata, E.L., F.F. Rivera, O.G. Plata and **M.A. Ismail**, Parallel fuzzy clustering on fixed size hypercube SIMD computers 11 (1989) 291
Zapata, E.L., *see* **Doallo, R.** 13 (1990) 321
Zapata, E.L., *see* **Rivera, F.F.** 14 (1990) 51
Zapata, E.L., *see* **García, I.** 15 (1990) 87
Zapata, E.L., *see* **Bruguera, J.D.** 19 (1993) 729
Zapata, E.L., *see* **Pena, T.F.** 20 (1994) 1129
Zenios, S.A., *see* **Chajakis, E.D.** 17 (1991) 873
Zenios, S.A., *see* **Nielsen, S.S.** 18 (1992 1033
Žerovnik, J., A parallel variant of a heuristical algorithm for graph colouring 13 (1990) 95

Žerovnik, J. and **M. Kaufman**, A parallel variant of a heuristical algorithm for graph coloring – Corrigendum 18 (1992 897
Zhang, C.N., H.F. Li and **R. Jayakumar**, A systematic approach for designing concurrent error-detecting systolic arrays using redundancy 19 (1993) 745
Zhang, G. and **H.C. Elman**, Parallel sparse Cholesky factorization on a shared memory multiprocessor 18 (1992 1009
Zhang, H., On the accuracy of the parallel diagonal dominant algorithm 17 (1991) 265
Zhang, H. and **W.F. Moss**, Using parallel banded linear system solvers in generalized eigenvalue problems 20 (1994) 1089
Zhang, J., *see* **Olariu, S.** 19 (1993) 229
Zhang, W., *see* **Olariu, S.** 17 (1991) 683
Zhang, X., M. Mckenna, J.P. Mesirov and **D.L. Waltz**, The backpropagation algorithm on grid and hypercube architectures 14 (1990) 317
Zhou, H.B., Two-stage m-way graph partitioning 19 (1993) 1359
Zhu, J., QR factorization for the regularized least squares problem on hypercubes 19 (1993) 939
Zima, H.P., P. Brezany and **B.M. Chapman**, SUPERB and Vienna Fortran 20 (1994) 1487
Zou, J., *see* **Hoffmann, K.-H.** 19 (1993) 1375
Zubair, M., An optimal speedup algorithm for the measure problem 13 (1990) 61
Zubair, M., S.N. Gupta and **C.E. Grosch**, A variable precision approach to speedup iterative schemes on fine grained parallel machines 18 (1992) 1223
Zubair, M., *see* **Dubey, A.** 20 (1994) 1697
Zunino, R., *see* **Pagano, F.** 19 (1993) 667

ELSEVIER

Parallel Computing 20 (1994) 1819–1850

PARALLEL COMPUTING

Subject indexto volumes 11–20 (1989–1994)

Accelerated projection methods	19 (1993) 1105
Access conflicts	11 (1989) 361
Access time limit	20 (1994) 1041
Active messages	20 (1994) 481
Adaptive	12 (1989) 145
Adaptive algorithms	18 (1992) 615
Adaptive filter problem	18 (1992) 1053
Adaptive gridding	18 (1992) 449
Adaptive numerical integration	16 (1990) 305
Adaptive processor partition	19 (1993) 103
Additive block preconditioner	20 (1994) 1055
AFAC	12 (1989) 145
Affine recurrence equations	18 (1992) 857
Affine schedule	18 (1992) 857
AGE algorithm	17 (1991) 925
Agglomeration	17 (1991) 1
AIRPLANE code	20 (1994) 1675
Aitken extrapolation cell	11 (1989) 385
Aitken's method	18 (1992) 415
Algebraic Path Problem	15 (1990) 211, 18 (1992) 185
Algorithm analysis	18 (1992) 393
Algorithm comparison	17 (1991) 779
Algorithm evaluation	17 (1991) 845
Algorithmic transformations	19 (1993) 33
Algorithm-independent bounds	18 (1992) 361
Algorithm oriented processor	15 (1990) 47
Algorithm performance modeling	12 (1989) 315
Algorithms	16 (1990) 173
Algorithm transformation	18 (1992) 525, 19 (1993) 1177, 20 (1994) 29
Algorithm verification	15 (1990) 267
Aliasing probability	18 (1992) 1079
Alignment network	17 (1991) 381
ALLIANT FX/8	11 (1989) 37
Alliant FX/8	20 (1994) 93
Allocation function	15 (1990) 211
All pairs shortest path problem	16 (1990) 61
Almost block diagonal linear systems	17 (1991) 133
Alternating Group Explicit (AGE) method	17 (1991) 833, 18 (1992) 879
AND and OR parallelism	18 (1992) 1275
Application programs	17 (1991) 1257
Applications	12 (1989) 259, 13 (1990) 225, 20 (1994) 547, 20 (1994) 1389
Application to dynamic programming	12 (1989) 195
Application topologies	20 (1994) 657
Applicative languages	13 (1990) 175, 13 (1990) 309
Approximate agreement	19 (1993) 765
AR	18 (1992) 997
Architecture	18 (1992) 947, 20 (1994) 1389, 20 (1994) 1427

Architecture adaptive algorithm methodology 19 (1993) 409
Area performance 17 (1991) 997
Area-time complexity 18 (1992) 11
Arithmetic mean (AM) 11 (1989) 245
Array alignment 20 (1994) 679
Array of processor nodes 19 (1993) 1235
Array processors 12 (1989) 375, 13 (1990) 281, 18 (1992) 1325
Array size anomaly 17 (1991) 515
Articulation points 18 (1992) 439
Artificial neural nets 14 (1990) 317
Artificial neural network (ANN) 18 (1992) 983, 20 (1994) 799
ASIC 16 (1990) 113
Assignment problem 17 (1991) 523
Assignment problem, auction algorithm 17 (1991) 707
Assignment Problem Iteration (API) 16 (1990) 253, 18 (1992) 355
Associative 18 (1992) 1403
Associative memory 16 (1990) 1, 19 (1993) 667
Asymptotic performance behaviour 17 (1991) 1361, 18 (1992) 931
Asynchronous 11 (1989) 263
Asynchronous algorithms 18 (1992) 31
Asynchronous concurrent process synchronization 11 (1989) 163
Asynchronous FAC 12 (1989) 131
Asynchronous iteration 18 (1992) 241, 18 (1992) 779, 19 (1993) 281, 19 (1993) 511, 19 (1993) 887
Asynchronous iterative methods 19 (1993) 1019
Asynchronous networks 18 (1992) 823
Asynchronous parallel algorithms 17 (1991) 101, 17 (1991) 673
Asynchronous processor network 17 (1991) 39
Atmospheric 20 (1994) 1427
ATOMCI 17 (1991) 297
Atomic structure software 18 (1992) 1023
Auction algorithm 20 (1994) 1221
Automata theory 18 (1992) 517
Automatic differentiation 13 (1990) 101
Automatic load balancing network 19 (1993) 125
Automatic parallelization 20 (1994) 679
Automatic synthesis 17 (1991) 457, 18 (1992) 793
Automatic vectorizing compilers 17 (1991) 1223
Autoregression 20 (1994) 29
Autotasking 13 (1990) 225, 15 (1990) 3, 17 (1991) 907, 17 (1991) 1303, 17 (1991) 1425, 18 (1992) 931
Average memory bandwidth 19 (1993) 455

b-Matching 17 (1991) 643
Backprojection reconstruction 17 (1991) 791
Backpropagation 14 (1990) 277, 14 (1990) 305, 14 (1990) 317, 14 (1990) 329, 18 (1992) 133
Back substitution 12 (1989) 53, 19 (1993) 303
Backtrack search algorithms 17 (1991) 1323
Banded linear system solver 20 (1994) 1089
Band matrix 15 (1990) 133
Band matrix multiplication 14 (1990) 234
Band matrix–vector multiplication 14 (1990) 234
Barrier 12 (1989) 157
Batcher's bitonic sort 17 (1991) 997
BBN Butterfly 11 (1989) 321
Behavioural synthesis 16 (1990) 113
Behaviour validation 18 (1992) 793
Benchmark 17 (1991) 1111, 17 (1991) 1131, 17 (1991) 1195
17 (1991) 1211, 18 (1992) 947, 19 (1993) 839, 20 (1994) 1685
Benchmark computer performance 17 (1991) 1153
Benchmarking 20 (1994) 1389

Benchmark methodology 17 (1991) 1173
Benchmark problem 11 (1989) 305, 19 (1993) 63
Benchmark results 13 (1990) 159
Bernstein's loop test 19 (1993) 197
Bidirectional Associative Memory 18 (1992) 401
Binary-cube networks 19 (1993) 1235
Binary tree architecture 18 (1992) 1185
Binary tree networks 18 (1992) 595
Biological modelling 14 (1990) 381
Bipartite 13 (1990) 143
Bipartite graph 13 (1990) 245
Bit-level systolic array 12 (1989) 301
Bitonic sorting 20 (1994) 115
BLAS 17 (1991) 751, 20 (1994) 953, 20 (1994) 1639
Block algorithm 12 (1989) 335, 16 (1990) 139
Block colouring 14 (1990) 61
Block cyclic reduction 17 (1991) 329
Blockdesign 17 (1991) 699
Blocked algorithms 20 (1994) 1653
Block implicit methods 17 (1991) 957
Block Jacobi method 11 (1989) 171
Block preconditioning 14 (1990) 191
Block recursive algorithm 19 (1993) 481
Block SSOR 16 (1990) 375
Block-tridiagonal linear systems 19 (1993) 257
Bluestein's FFT 17 (1991) 607
Boltzmann equation 18 (1992) 269, 19 (1993) 103
Boltzmann Machine 18 (1992) 57, 19 (1993) 163
Boltzmann machine approach 17 (1991) 969
Boltzmann transport equation 18 (1992) 241
Boolean functions 14 (1990) 249
Boolean Gröbner basis 17 (1991) 29
Boolean n-cube network 12 (1989) 375
Bordered bidiagonal matrix 20 (1994) 1107
Boundary element method 18 (1992) 1317
Boundary value methods 19 (1993) 979
Boundary-value problem 12 (1989) 343, 17 (1991) 347, 17 (1991) 925, 19 (1993) 79
Branch and Bound 15 (1990) 201, 19 (1993) 143
Breadth-first search 13 (1990) 245, 18 (1992) 439
Breadth first spanning tree 17 (1991) 657
Bridges 13 (1990) 143, 18 (1992) 377, 18 (1992) 439
Bridges in graphs 12 (1989) 107
Broadcast 16 (1990) 183
Broadcast algorithms 17 (1991) 109
Broadcast communication model 18 (1992) 133, 20 (1994) 347
Broadcast communications 19 (1993) 897, 20 (1994) 325
Broadcasting 18 (1992) 639
Broadening the computational front 17 (1991) 957
Bullet operation 17 (1991) 483
Bus contention 20 (1994) 1041
Bus systems 19 (1993) 229
Busy-waiting 17 (1991) 1377

C 20 (1994) 445, 20 (1994) 615
Cache 17 (1991) 311
Cardinal splines 17 (1991) 483
Case studies 20 (1994) 531
Cayley graphs 19 (1993) 361
Cellular algorithm 14 (1990) 99

Cellular array 18 (1992) 313
Cellular automata 11 (1989) 163, 14 (1990) 99, 16 (1990) 293, 18 (1992) 517
Cellular processor networks 11 (1989) 163
CFD 20 (1994) 1397
CG method 20 (1994) 1055
Channel routing 17 (1991) 229
Channel routing problems 19 (1993) 63
Chaos 12 (1989) 113
Chaos theory 17 (1991) 809
Characteristic polynomial 17 (1991) 273
Chemical transport model 20 (1994) 1571
Chinese remaindering 17 (1991) 493
Chinese remainder theorem 19 (1993) 1303
Cholesky decomposition 17 (1991) 409, 17 (1991) 751
Cholesky factorization 16 (1990) 59, 16 (1990) 139, 18 (1992) 213, 19 (1993) 153
Chopping algorithm 19 (1993) 651
Circuit layout 17 (1991) 85, 17 (1991) 229
Circuit simulation 17 (1991) 1009
Circulant Toeplitz matrices 12 (1989) 301
Circular omega network 18 (1992) 901
Circular omega topology 19 (1993) 125
Classification 17 (1991) 1073, 18 (1992) 109
Closed queueing networks 19 (1993) 1345
Clustered distributed systems 20 (1994) 77
Cluster identification algorithm 13 (1990) 345
Clustering 19 (1993) 1359, 20 (1994) 325
Clustering techniques 11 (1989) 275
CM5 19 (1993) 1427
Coarse-grained 20 (1994) 729
Coarse-grained approach 20 (1994) 245
Coarse-grained parallelism 11 (1989) 171
Code compaction 17 (1991) 969
Code optimization 17 (1991) 969
Collective communication 20 (1994) 565, 20 (1994) 657
Collocation 12 (1989) 171
Colouring 17 (1991) 1051
Combinational circuits 17 (1991) 1323
Combinations 13 (1990) 119
Combinatorial objects 20 (1994) 775
Combinatorial optimization 16 (1990) 287, 17 (1991) 443, 18 (1992) 1157
19 (1993) 143, 19 (1993) 163, 19 (1993) 859
Combinatorial problem 13 (1990) 95, 18 (1992) 897
Combinatorial search 19 (1993) 343
Combinatorics 17 (1991) 699
Commit protocols 20 (1994) 101
COMMS1 benchmark 20 (1994) 389
Communication 13 (1990) 377, 18 (1992) 639
Communication algorithm 18 (1992) 1233
Communication bandwidth 19 (1993) 323
Communication benchmarks 17 (1991) 1285
Communication bit complexity 16 (1990) 183
Communication complexity 17 (1991) 607
Communication contexts 20 (1994) 657
Communication costs 15 (1990) 75, 16 (1990) 27, 16 (1990) 59, 18 (1992) 361, 20 (1994) 815
Communication delays 16 (1990) 173
Communication element complexity 16 (1990) 183
Communication message complexity 16 (1990) 183
Communication model 20 (1994) 463, 20 (1994) 509
Communication networks 19 (1993) 897
Communication overhead 12 (1989) 335, 20 (1994) 417

Communication performance 18 (1992) 1067, 20 (1994) 389, 20 (1994) 497
Communications 17 (1991) 109, 17 (1991) 1111
Communication tasks 16 (1990) 27
Communication tools 20 (1994) 509
Communication trees 18 (1992) 557
Comparison of model and reality 11 (1989) 361
Comparison with other algorithms 17 (1991) 133
Comparison with vector computers 19 (1993) 103
Compilation 17 (1991) 969
Compiler 18 (1992) 699, 20 (1994) 869
Compiler performance model 17 (1991 1223
Complexity 12 (1989) 107, 13 (1990) 101, 14 (1990) 261
16 (1990) 173, 17 (1991) 273, 20 (1994) 297, 20 (1994) 313
Complexity analysis 11 (1989) 331, 12 (1989) 183, 13 (1990) 61
13 (1990) 135, 13 (1990) 253, 14 (1990) 89, 15 (1990) 21, 15 (1990) 165
17 (1991) 133, 19 (1993) 1235, 20 (1994) 15
Complexity estimation 19 (1993) 1029
Complexity of parallel computations 19 (1993) 961
Complexity results 13 (1990) 73, 14 (1990) 223
Complexity time 18 (1992) 103
Composite grids 17 (1991) 665
Computational complexity 17 (1991) 607, 20 (1994) 1205
Computational fluid dynamics 14 (1990) 1, 20 (1994) 363, 20 (1994) 1069
Computational geometry 12 (1989) 71, 12 (1989) 221, 13 (1990) 135, 18 (1992) 281, 19 (1993) 1129
Computational intensity 18 (1992) 931
Computational physics 20 (1994) 975
Computational results 17 (1991) 707
Computation benchmarks 17 (1991) 1285
Computation load 19 (1993) 621
Computation models 18 (1992) 1143
Computation time complexity 16 (1990) 183
Computer-architecture 17 (1991) 699, 18 (1992) 517
Computer graphics 13 (1990) 73
Computer system Parawell 13 (1990) 159
Computer testing 18 (1992) 931
Computing environments 19 (1993) 409
Concurrency 18 (1992) 1335
Concurrent error detection 19 (1993) 745
Concurrent fault location 18 (1992) 1185
Concurrent programming languages 18 (1992) 1381
Concurrent testing 18 (1992) 1079
Condensed NN rule 17 (1991) 381
Configuration interaction 17 (1991) 297
Conflict-free broadcasting algorithms 18 (1992) 439
Conflict-free data access 19 (1993) 497
Congestion 18 (1992) 595
Congruence Closure Method (CCM) 11 (1989) 1
Congruential generators 14 (1990) 207
Congruent region 13 (1990) 135
Conjugate gradient 11 (1989) 223, 16 (1990) 375, 17 (1991) 1051
Conjugate gradient algorithm 16 (1990) 313
Conjugate gradient method 18 (1992) 1053, 20 (1994) 753
Connected components 13 (1990) 143, 18 (1992) 439
Connectionism 14 (1990) 287, 14 (1990) 305, 14 (1990) 329, 16 (1990) 287
Connection Machine 12 (1989) 209, 13 (1990) 301, 14 (1990) 1, 14 (1990) 381
15 (1990) 155, 18 (1992) 75, 18 (1992) 575, 20 (1994) 975
Connection Machine 2 18 (1992) 931, 18 (1992) 1201, 18 (1992) 1291, 19 (1993) 577
Connection Machine CM-2 14 (1990) 317, 18 (1992) 1033
Connection Machine 5 (CM-5) 20 (1994) 173
Connection machine CM-200 20 (1994) 919

Conservation laws 16 (1990) 293
Consistency check matrix 20 (1994) 799
Constrained l_1 approximation 19 (1993) 609
Constrained optimization problem 16 (1990) 221
Content-addressable memory 18 (1992) 1403
Context-free language recognition 20 (1994) 1303
Contexts 20 (1994) 565
Continued fraction 15 (1990) 189, 19 (1993) 577
Control flow checking 18 (1992) 1079
Conventional mainframes 11 (1989) 305
Convergence 18 (1992) 1259
Convergence analysis 19 (1993) 281
Convergence evaluation 12 (1989) 21
Convergence of iterations 19 (1993) 887
Convergence rate analysis 19 (1993) 765
CONVEX 17 (1991) 1247
Convex hull 18 (1992) 221, 18 (1992) 281
Convolution 17 (1991) 515, 20 (1994) 29
CORDIC algorithm 19 (1993) 729
CORDIC processor 11 (1989) 367
Correctness 18 (1992) 121
Correlation 18 (1992) 575
Correlation dimension 17 (1991) 809
Cost 19 (1993) 993
Cost analysis 16 (1990) 41
Cost-optimal parallel algorithms 18 (1992) 1143
Crank-Nicolson scheme 20 (1994) 897
CRAY-1 11 (1989) 107
CRAY-2 13 (1990) 261, 17 (1991) 311, 17 (1991) 763, 17 (1991) 1247, 18 (1992) 931
Cray-C90 20 (1994) 389
CRAY X-MP 11 (1989) 107, 12 (1989) 259, 17 (1991) 17, 17 (1991) 579, 17 (1991) 1173
CRAY Y-MP 13 (1990) 225, 15 (1990) 3, 17 (1991) 17, 17 (1991) 553, 17 (1991) 579, 17 (1991) 1425
CRAY Y-MP 8/432 17 (1991) 907, 17 (1991) 1131, 17 (1991) 1303, 19 (1993) 823
Cray Y-MP C90 18 (1992) 947
CREW PRAM 18 (1992) 807
CREW PRAW 17 (1991) 683
Critical path 18 (1992) 169
Critical path heuristic 19 (1993) 1321
Crossbar switch 18 (1992) 1415
Crossed cube architecture 20 (1994) 1763
Cube-connected cycles 11 (1989) 93, 20 (1994) 313
Cube-connected machine 19 (1993) 713
Cubic topology 17 (1991) 895
Cycle shrinking 18 (1992) 481
Cyclic reduction 14 (1990) 31, 19 (1993) 545, 19 (1993) 1273, 20 (1994) 63, 20 (1994) 1175
Cyclic storing 17 (1991) 39

DAP 17 (1991) 49, 18 (1992) 109
DAP computer 18 (1992) 675
Data allocation strategies 18 (1992) 213
Data broadcast elimination 18 (1992) 857, 19 (1993) 1177, 20 (1994) 29
Data communication 17 (1991) 1343, 19 (1993) 1375
Data consistency and synchronization 20 (1994) 1443
Data dependence 18 (1992) 497, 18 (1992) 525, 18 (1992) 857, 18 (1992) 1335
19 (1993) 197, 19 (1993) 1177, 20 (1994) 29
Data dependence checking 18 (1992) 1079
Data dependence graphs 17 (1991) 279
Data dependence method 18 (1992) 1053
Data distribution 16 (1990) 125, 20 (1994) 1487, 20 (1994) 1697

Dataflow architecture 13 (1990) 309, 18 (1992) 901
Data flow compiler 13 (1990) 309
Data flow graph 20 (1994) 869
Dataflow software pipelining 13 (1990) 309
Data mapping 13 (1990) 235
Data parallel algorithms 19 (1993) 1345, 20 (1994) 1487
Data-parallel computation 20 (1994) 297
Data parallelism 18 (1992) 867, 19 (1993) 1199
Data-parallel programming 20 (1994) 363
Data pipelining 14 (1990) 163
Data redistribution by local permutation 16 (1990) 125
Data reference directions 19 (1993) 197
Data routing 19 (1993) 95
Data structure 18 (1992) 675
Data types 20 (1994) 565
DBT transformation 13 (1990) 321
Deadlock detection 17 (1991) 1377
Deadlock-free 20 (1994) 1721
Decentralized algorithms 20 (1994) 101
Decomposition strategy 16 (1990) 313
Degree 19 (1993) 993
Delimiter 16 (1990) 183
Dempster-Shafer method 19 (1993) 807
Dense linear systems 15 (1990) 107
Dependence graph 15 (1990) 211, 17 (1991) 63
Depth-first search 13 (1990) 245, 18 (1992) 439, 18 (1992) 551
DESCARTES 14 (1990) 287
Design and analysis of parallel algorithms 19 (1993) 961
Design automation 19 (1993) 1359
Determinism 18 (1992) 121
Deterministic scheduling 20 (1994) 15
Development environments 15 (1990) 247
Dhrystone 17 (1991) 1153
Diagonally dominant matrices 20 (1994) 1175
Diagonal monotone perturbation 19 (1993) 511
Diameter 19 (1993) 993
Dictionary machine 16 (1990) 75, 18 (1992) 1185
Differential algebraic problems 19 (1993) 511
Differential dynamic programming 19 (1993) 1003
Digital contour smoothing 12 (1989) 301
Digital signal processing 19 (1993) 463, 19 (1993) 729
Digit-reversal permutation 20 (1994) 93
Dilation 18 (1992) 595
Dimensional analysis 17 (1991) 1073
Directed complete graph 16 (1990) 61
Directed graph 17 (1991) 657
Discrete event simulation 12 (1989) 359, 19 (1993) 219
Discrete Fourier Transform 20 (1994) 215
Discrete orthogonal polynomials 18 (1992) 649
Discrete-time optimal control problems 16 (1990) 221
Distributed algorithm 17 (1991) 1377, 18 (1992) 823
Distributed Array Processor (DAP) 11 (1989) 151, 12 (1989) 209, 13 (1990) 369
Distributed BLAS 20 (1994) 919
Distributed computation 16 (1990) 335, 18 (1992) 47
Distributed computer systems 19 (1993) 897, 20 (1994) 325
Distributed computing 11 (1989) 263
Distributed computing system 20 (1994) 835
Distributed control 18 (1992) 1415
Distributed database 19 (1993) 685

Distributed load balancing 20 (1994) 853
Distributed memory 15 (1990) 147, 17 (1991) 253, 17 (1991) 665, 18 (1992) 867
18 (1992) 959, 19 (1993) 23, 20 (1994) 1571
Distributed memory architectures 18 (1992) 639, 18 (1992) 973, 19 (1993) 961, 20 (1994) 1407
Distributed memory computers 18 (1992) 1317, 19 (1993) 1199, 20 (1994) 657
20 (1994) 753, 20 (1994) 1069
Distributed memory machines 19 (1993) 949, 20 (1994) 245, 20 (1994) 679
Distributed memory MIMD systems 17 (1991) 1275
Distributed memory multicomputer 20 (1994) 173
Distributed-memory multiprocessor 12 (1989) 131, 16 (1990) 361, 17 (1991) 1, 17 (1991) 29
17 (1991) 1017, 18 (1992) 241, 18 (1992) 649, 18 (1992) 743
18 (1992) 1129, 19 (1993) 153, 19 (1993) 209, 19 (1993) 243
19 (1993) 633, 19 (1993) 1117, 19 (1993) 1413, 20 (1994) 125
20 (1994) 399, 20 (1994) 417, 20 (1994) 953, 20 (1994) 1089
20 (1994) 1335, 20 (1994) 1487, 20 (1994) 1547, 20 (1994) 1605
Distributed memory parallel machine 20 (1994) 1697
Distributed memory processors 17 (1991) 155
Distributed memory system 19 (1993) 621, 20 (1994) 1613, 20 (1994) 1653
Distributed operating system 20 (1994) 1407
Distributed parallel architecture 19 (1993) 1375
Distributed parallel computing 19 (1993) 1221
Distributed shared memory 20 (1994) 1007
Distributed shared memory architectures 20 (1994) 1443
Distributed systems 18 (1992) 1415
Distributed termination 18 (1992) 779
Distributing, spanning trees 17 (1991) 1343
Divide and conquer algorithm 17 (1991) 189, 17 (1991) 419, 17 (1991) 983, 18 (1992) 1105
Divide and conquer method 19 (1993) 257
Divide and conquer strategy 13 (1990) 61
Domain decomposition 12 (1989) 21, 17 (1991) 165, 17 (1991) 253, 19 (1993) 257, 20 (1994) 1685
Domain decomposition method 19 (1993) 1375
Dominator 19 (1993) 713
Doppler ultrasound 19 (1993) 463
Double bordering 17 (1991) 591
Drop 20 (1994) 887
Dual method 18 (1992) 1393
Duplicate removal problems 17 (1991) 845
Dynamical local grid refinement 13 (1990) 359
Dynamic and static scheduling 17 (1991) 285
Dynamic balance 17 (1991) 733
Dynamic concatenation approach 18 (1992) 149
Dynamic load-balance 17 (1991) 253
Dynamic load balancing 17 (1991) 1025, 19 (1993) 209, 19 (1993) 897
19 (1993) 1221, 20 (1994) 325, 20 (1994) 597
Dynamic parallelism 17 (1991) 791
Dynamic partitioning 17 (1991) 189
Dynamic priority 20 (1994) 1041
Dynamic programming 13 (1990) 111, 13 (1990) 261, 19 (1993) 9
Dynamic remapping scheme 19 (1993) 621
Dynamics 14 (1990) 405
Dynamic scheduler 20 (1994) 1583
Dynamic scheduling 18 (1992) 913
Dynamic to pology networks 14 (1990) 363

Edge-fault-tolerant extensions 20 (1994) 1289
Effectiveness analysis 13 (1990) 1
Efficiency 15 (1990) 119, 17 (1991) 285, 17 (1991) 443, 17 (1991) 695
17 (1991) 1257, 17 (1991) 1361, 19 (1993) 409
Efficiency analysis 16 (1990) 139, 18 (1992) 213
EGS4 20 (1994) 991

Eigenvalue problem 17 (1991) 311, 17 (1991) 763, 18 (1992) 973, 18 (1992) 1105, 20 (1994) 63
Eigenvalues 15 (1990) 101, 17 (1991) 155, 18 (1992) 207, 18 (1992) 1129
Eigenvectors 15 (1990) 101, 17 (1991) 155, 18 (1992) 207
Election problem 11 (1989) 381
Electroencephalograms 18 (1992) 109
Electronic CAD 19 (1993) 177
Elimination tree 11 (1989) 73, 14 (1990) 151, 18 (1992) 849, 19 (1993) 187
Energy expression 17 (1991) 297
Equational language 11 (1989) 1
EREW-PRAM 17 (1991) 689, 18 (1992) 511, 19 (1993) 973
Error analysis 18 (1992) 431, 19 (1993) 917
ETA 10-P 11 (1989) 117
Euler equations 20 (1994) 363
Euler method 20 (1994) 1675
Euler-tour 18 (1992) 511
Evaluation 17 (1991) 493, 20 (1994) 633
Exact global dynamic load balancing 18 (1992) 615
Exchange-perfect shuffle 20 (1994) 313
Execution models 15 (1990) 247
Execution times 14 (1990) 1, 15 (1990) 21
Experimental implementation 19 (1993) 1235
Experimental results 17 (1991) 121, 17 (1991) 969, 17 (1991) 1009, 17 (1991) 1323
18 (1992) 1223, 19 (1993) 177, 19 (1993) 621, 19 (1993) 667
Experimental study 19 (1993) 1321
Expert system 18 (1992) 913
Explicit block iterative methods 16 (1990) 81
Explicit difference methods 15 (1990) 147, 17 (1991) 665, 18 (1992) 867
Exponential polynomial 20 (1994) 1583
Express 20 (1994) 597
External sort 19 (1993) 839
Extrapolation tables 11 (1989) 385
Extreme value distribution 20 (1994) 1583

Fast adaptive composite grid method (FAC) 12 (1989) 131
Fast algorithms 18 (1992) 85
Fast Fourier Transform (FFT) 17 (1991) 121, 18 (1992) 1201, 20 (1994) 93, 20 (1994) 1697
'Fat tree' network 20 (1994) 1627
Fault diagnosis 14 (1990) 234, 18 (1992) 1185
Fault identification 19 (1993) 693
Fault-tolerance 17 (1991) 941, 18 (1992) 1185, 19 (1993) 745, 20 (1994) 1289, 20 (1994) 1721
Fault-tolerant algorithms 20 (1994) 101
Fault-tolerant extensions 20 (1994) 1289
FEM analysis 19 (1993) 1393
FFT algorithm 20 (1994) 1335
FFT, performance results 19 (1993) 1393
Fill-in control 11 (1989) 201
Finding congruent regions 18 (1992) 807
Fine-grained 20 (1994) 729
Fine grained parallel machines 18 (1992) 1223
Fine grained parallel systems 15 (1990) 201
Fine-grain MIMD algorithm 20 (1994) 151
Finite difference method 20 (1994) 897
Finite element 17 (1991) 1051
Finite element computation 18 (1992) 779
Finite element method 19 (1993) 1, 20 (1994) 1129
Finite pointset method 19 (1993) 103
Fluid dynamics code 11 (1989) 305
Folding transformation 18 (1992) 525, 19 (1993) 1177, 20 (1994) 29
Fork and join 17 (1991) 297

Formal methods 18 (1992) 1363
Formatted record searching 13 (1990) 369
FORTRAN 17 (1991) 751, 20 (1994) 445, 20 (1994) 615, 20 (1994) 1519
FORTRAN loops 13 (1990) 35, 17 (1991) 1223
FORTRAN macro package 15 (1990) 119
Fortran-Plus 18 (1992) 1325
Forward chaining 18 (1992) 913
Forward error analysis 20 (1994) 1175
Fourier-motzkin method 20 (1994) 711
FP 17 (1991) 457
FPS T-series 15 (1990) 155
Fractals 19 (1993) 1129
Frame-based knowledge representation 20 (1994) 1369
Fredholm integral equations 12 (1989) 95
FUJITSU 17 (1991) 311
Functional language 17 (1991) 189, 18 (1992) 1167, 18 (1992) 1363
Functional-link cell 18 (1992) 983
Functional programming 19 (1993) 1141
Fundamental cycles 13 (1990) 143
Fuzzy arithmetic 19 (1993) 1283
Fuzzy clustering 11 (1989) 291
Fuzzy *C*-means 11 (1989) 291
Fuzzy C-means clustering 13 (1990) 321

Gaussian elimination 11 (1989) 367, 12 (1989) 183, 14 (1990) 51, 14 (1990) 199
15 (1990) 133, 15 (1990) 211, 16 (1990) 351, 17 (1991) 55
18 (1992) 1317, 19 (1993) 1393
Gauss-Jordan algorithm 19 (1993) 243
Gauss-Seidel and S.O.R. methods 16 (1990) 81
G/D/1/K queue 19 (1993) 219
General domains 20 (1994) 1559
Generalised Conjugate Gradient (GCG) 16 (1990) 207
Generalised inverse 20 (1994) 297
Generalization 14 (1990) 277
Generalization probability 14 (1990) 261
Generalized eigenvalue problem 20 (1994) 1089
Generalized inverse 11 (1989) 349, 20 (1994) 799
Generalized symmetric eigenvalue problem 14 (1990) 129
General linear recurrence 18 (1992) 1301
GENESIS 20 (1994) 1389, 20 (1994) 1605, 20 (1994) 1639, 20 (1994) 1669
Genesis benchmark 20 (1994) 1653
Genesis parallel benchmarks 17 (1991) 1275
Genetic algorithm 14 (1990) 347, 18 (1992) 1157, 19 (1993) 1313
Geometrical domain decomposition 13 (1990) 359
Geometric mean (GM) 11 (1989) 245
Geometric parallelization 19 (1993) 1041
GF11 14 (1990) 329
GF11 multiprocessor computer, architecture 19 (1993) 1393
GFSR algorithm 18 (1992) 839
GFSR generator 20 (1994) 1357
Givens rotations 11 (1989) 55, 17 (1991) 779, 18 (1992) 1, 19 (1993) 703
19 (1993) 939, 20 (1994) 1107
Givens transformation 12 (1989) 233
Global addition 18 (1992) 575
Global optimization 18 (1992) 1259
Global optimization problem 12 (1989) 315
Global shared memory 18 (1992) 449
Global spectral weather model 20 (1994) 1335
Global weather forecasting 20 (1994) 1685
Golub–Reinsch-algorithm 17 (1991) 39

Graded approach 17 (1991) 1211
Gram-Schmidt algorithm 16 (1990) 99
Gram–Schmidt method 17 (1991) 409
Granularity 19 (1993) 463
Graph 17 (1991) 657
Graph coloring heuristics 20 (1994) 753
Graph colouring 13 (1990) 95, 18 (1992) 897
Graph embeddings 18 (1992) 595
Graphical model 12 (1989) 157
Graph methodology for regularizing data flow 19 (1993) 33
Graph problems 13 (1990) 143, 15 (1990) 179
Graph reduction machine TERM 11 (1989) 1
Graph representation 11 (1989) 93
Graph theory 12 (1989) 45
Greedy automaton 18 (1992) 345
Grid partitioning 19 (1993) 23, 20 (1994) 1559, 20 (1994) 1571
Grid partitioning algorithms 20 (1994) 815
Group explicit (GE) methods 16 (1990) 191
Growth factor 20 (1994) 197
Guided self-scheduling 18 (1992) 625
Gustafson's law 17 (1991) 1361

Halton sequence 11 (1989) 113
Hammersley sequence 11 (1989) 113
Hardware 18 (1992) 947
Hardware monitoring 18 (1992) 1381
Hardware performance monitor 17 (1991) 1303
Hashing 19 (1993) 1155
Hausdorff distance 19 (1993) 1129
Heap 16 (1990) 273
Height, rotation 11 (1989) 73
Hermite normal form 20 (1994) 711
Hessenberg matrix 17 (1991) 273, 19 (1993) 925
Hestenes' method 17 (1991) 39
Heterogeneous environments 20 (1994) 417
Heterogeneous networks 14 (1990) 287
Heuristic parallel algorithm 11 (1989) 151
Heuristics 17 (1991) 63, 19 (1993) 343, 20 (1994) 1, 20 (1994) 835
Hexagonally connected data-driven array 18 (1992) 297
Hidden surface removal problem 15 (1990) 277
Hierarchical interconnection structure 20 (1994) 1407
Hierarchical memory 18 (1992) 959
Hierarchical networks 18 (1992) 517
High connectivity node 18 (1992) 313
Higher-order correlation 20 (1994) 799
High-order weights 16 (1990) 287
High-performance computers 17 (1991) 1211
High performance computing 20 (1994) 1397, 20 (1994) 1605
High-speed interconnect 20 (1994) 1041
Hold 20 (1994) 887
Homogeneous and heterogeneous networks 19 (1993) 409
Homogeneous networks 19 (1993) 949
Homotopy methods 17 (1991) 1385
Hopfield and Tank model 17 (1991) 229
Hopfield and Tank networks 16 (1990) 287
Horner algorithm 20 (1994) 1205
Host groups 20 (1994) 325
Hot-spot memory contention 19 (1993) 455

Hough transform 16 (1990) 113
Householder algorithm 16 (1990) 99
Householder matrices 17 (1991) 779
Householder reduction 18 (1992) 1317
Householder transformation 19 (1993) 939
Hubbard model 20 (1994) 399
Hughes data-flow machine 13 (1990) 17
Hungarian method 16 (1990) 253, 17 (1991) 523, 18 (1992) 355
HVH model 19 (1993) 63
Hybrid algorithm 19 (1993) 939
Hybrid Monte Carlo 15 (1990) 3
Hybrid multiprocessor 14 (1990) 129
Hybrid networks 14 (1990) 287
Hybrid scheduling scheme 18 (1992) 625
Hybrid sorter 17 (1991) 997
Hyperbolic equation 16 (1990) 191
Hyperbolic initial boundary value problem 16 (1990) 207
Hypercube 11 (1989) 263, 11 (1989) 275, 11 (1989) 381, 12 (1989) 145, 12 (1989) 315, 12 (1989) 335
13 (1990) 235, 13 (1990) 245, 13 (1990) 301, 14 (1990) 317, 15 (1990) 147
16 (1990) 59, 17 (1991) 95, 17 (1991) 253, 17 (1991) 483, 17 (1991) 665, 17 (1991) 1285
17 (1991) 1385, 18 (1992) 121, 18 (1992) 177, 18 (1992) 335, 18 (1992) 401, 18 (1992) 649
18 (1992) 1233, 19 (1993) 95, 19 (1993) 323, 19 (1993) 1079, 20 (1994) 115, 20 (1994) 853
20 (1994) 1547, 20 (1994) 1721, 20 (1994) 1739
Hypercube architecture 17 (1991) 607, 17 (1991) 845, 19 (1993) 765
20 (1994) 953, 20 (1994) 1249, 20 (1994) 1763
Hypercube computer 13 (1990) 1, 13 (1990) 143, 14 (1990) 51, 15 (1990) 87
15 (1990) 179, 18 (1992) 779, 19 (1993) 497, 20 (1994) 1129
Hypercube multiprocessor 13 (1990) 199, 15 (1990) 201, 16 (1990) 75, 17 (1991) 121
17 (1991) 633, 19 (1993) 713, 20 (1994) 1369
Hypercube network 17 (1991) 381
Hypercube SIMD computer 11 (1989) 291
Hypercube topology 19 (1993) 437, 19 (1993) 481
Hyperplanes 14 (1990) 261

IBM 17 (1991) 311
IBM 3090E 13 (1990) 47
IBM External User Interface (EUI) 20 (1994) 445
IBM RISC System/6000 19 (1993) 1053
IBM SP1 19 (1993) 1427
IBM 9076 SP1 20 (1994) 445
IBM 3090/VF 13 (1990) 35
IBM 3090 VF 17 (1991) 1131, 17 (1991) 1409
Idle workstations 19 (1993) 1221
IFS codes 19 (1993) 1129
Image analysis 18 (1992) 867
Image compression 19 (1993) 1129
Image processing 12 (1989) 221, 13 (1990) 337, 14 (1990) 99, 17 (1991) 85, 18 (1992) 1403
Imperative language 13 (1990) 175
Implementation features 11 (1989) 37, 15 (1990) 119, 15 (1990) 155, 16 (1990) 335, 16 (1990) 361
17 (1991) 29, 18 (1992) 557, 18 (1992) 743, 18 (1992) 1033
18 (1992) 1201, 20 (1994) 953, 20 (1994) 975, 20 (1994) 1697
Implementation features of TERM 11 (1989) 1
Implementation results 15 (1990) 165
Implementation techniques 19 (1993) 807
Implicit difference equations 16 (1990) 207
Incomplete Cholesky 20 (1994) 753
Incomplete Cholesky conjugate gradient algorithm (ICCG) 18 (1992) 719
Incomplete hypercubes 17 (1991) 1343
Incompressible Navier-Stokes equations 18 (1992) 449
Independent tasks 16 (1990) 69

Index shift 18 (1992) 481
Inertial navigation 12 (1989) 233
Initial value problems 17 (1991) 957, 18 (1992) 661
Inner Product Step (IPS) operation 18 (1992) 997
Instruction level parallelism 18 (1992) 1349, 20 (1994) 729
Instruction scheduling 18 (1992) 393, 18 (1992) 497
Instruction systolic array 11 (1989) 349, 13 (1990) 337, 17 (1991) 493
Instruction Systolic computation 17 (1991) 273
Insufficient load balance 19 (1993) 103
Integer programming 16 (1990) 157
Integer sorting 19 (1993) 229
Integral equation 19 (1993) 1105
Integrated Forecasting System (IFS) model 20 (1994) 1685
Intel hypercubes 19 (1993) 939
Intel iPSC 15 (1990) 21
Intel iPSC/2 13 (1990) 199, 17 (1991) 1385
Intel iPSC/1860 19 (1993) 243, 19 (1993) 621
Intel iPSC/860 17 (1991) 1285, 20 (1994) 389, 20 (1994) 953, 20 (1994) 1697
Intel iPSC/2 hypercube 15 (1990) 119, 20 (1994) 1335
Intel multicomputers 20 (1994) 463
Intel Paragon 20 (1994) 389
Interconnection network 12 (1989) 375, 17 (1991) 95, 17 (1991) 633, 18 (1992) 639, 18 (1992) 1415
19 (1993) 95, 19 (1993) 125, 19 (1993) 361, 19 (1993) 993, 20 (1994) 887
20 (1994) 1027, 20 (1994) 1739
Interface design 13 (1990) 175
Interior point method 18 (1992) 675
Interleaved memory 17 (1991) 311
Interlocking translation 18 (1992) 525, 19 (1993) 1177, 20 (1994) 29
Internal sorting 11 (1989) 117
Interpolation 17 (1991) 493
Interprocessor communication 11 (1989) 131, 20 (1994) 869, 20 (1994) 1627
Interval arithmetics 17 (1991) 329
Interval graph 13 (1990) 253
Invariant imbedding 11 (1989) 263
Inverse matrix 17 (1991) 907
Inversion 14 (1990) 277
Inversion of Radon transform 18 (1992) 85
iPSC 14 (1990) 31
iPSC/860 18 (1992) 1067
iPSC/2 implementation 18 (1992) 121
ISA 17 (1991) 207
Ising model 13 (1990) 345, 19 (1993) 1041, 20 (1994) 1571
Iteration matrices 17 (1991) 49
Iterative algorithm 17 (1991) 913, 18 (1992) 281, 19 (1993) 281
Iterative improvement 18 (1992) 297
Iterative method 11 (1989) 223, 12 (1989) 171, 17 (1991) 1051, 19 (1993) 525
Iterative schemes 18 (1992) 1223
Iterative solution 18 (1992) 675

Jacobi method 13 (1990) 281, 17 (1991) 155
Jacobi-sets 19 (1993) 437, 19 (1993) 481
Jacobi-type methods 19 (1993) 437, 19 (1993) 481

Kalman filter orthogonal transformation 12 (1989) 233
Karmarkar's algorithm 16 (1990) 1
k-ϵ model 15 (1990) 47
Kendall Square Research KSR1 computer 20 (1994) 1161
Kernighan–Lin heuristic 19 (1993) 1359
Knapsack problem 13 (1990) 111, 20 (1994) 233

Knowledge base systems 20 (1994) 1369
Kruskal's algorithm 12 (1989) 45
k-selection problem 11 (1989) 381

Lagged-Fibonacci generator 20 (1994) 1357
Lagrange interpolant 17 (1991) 493
Lagrangians 17 (1991) 483
Lanczos algorithm 17 (1991) 763
Language extensions 15 (1990) 247
LAPACK 17 (1991) 751, 18 (1992) 973, 20 (1994) 1161
Large scale 19 (1993) 1003
Large-scale software 20 (1994) 565
Latency 20 (1994) 389
Lattice 20 (1994) 711
Lattice computer 12 (1989) 113
Lattice gauge theory 12 (1989) 209, 18 (1992) 1291, 20 (1994) 975
Leapfrog technique 18 (1992) 839
Learning 14 (1990) 249, 14 (1990) 405
Least fixed points 19 (1993) 887
Least squares 17 (1991) 913
Least squares problem 18 (1992) 1
Legendre Transform algorithm 20 (1994) 1335
Level 3 BLAS 20 (1994) 1161
Levinson-type algorithm 17 (1991) 563
Lexical analysis 18 (1992) 699
Lexicographic order 13 (1990) 119, 20 (1994) 775
LINDA 20 (1994) 633
Linear algebra 12 (1989) 327, 13 (1990) 199, 13 (1990) 211, 13 (1990) 281
14 (1990) 31, 14 (1990) 51, 14 (1990) 129, 14 (1990) 151
14 (1990) 191, 14 (1990) 199, 14 (1990) 223, 14 (1990) 229
14 (1990) 234, 15 (1990) 21, 15 (1990) 101, 15 (1990) 227
16 (1990) 59, 17 (1991) 133, 17 (1991) 311, 17 (1991) 409
17 (1991) 419, 17 (1991) 553, 17 (1991) 1017, 17 (1991) 1043
18 (1992) 1, 18 (1992) 431, 18 (1992) 719, 18 (1992) 973
18 (1992) 1009, 18 (1992) 1129, 19 (1993) 153, 19 (1993) 243
19 (1993) 257, 19 (1993) 281, 19 (1993) 303, 19 (1993) 563
19 (1993) 577, 20 (1994) 919, 20 (1994) 953, 20 (1994) 1089
20 (1994) 1175, 20 (1994) 1249, 20 (1994) 1639
Linear algebra algorithms 13 (1990) 47
Linear algebra kernels 12 (1989) 259
Linear and non-linear methods 14 (1990) 207
Linear array 16 (1990) 273, 17 (1991) 527, 18 (1992) 401
Linear array of processors 17 (1991) 913, 19 (1993) 1283, 20 (1994) 151
Linear boundary value problems 19 (1993) 651
Linear congruential generator 13 (1990) 193
Linear differential equations 20 (1994) 275
Linear equations 17 (1991) 311
Linear equation system 19 (1993) 525
Linear programming 13 (1990) 235, 18 (1992) 675, 19 (1993) 609
Linear programming algorithms 18 (1992) 615
Linear recurrence systems 11 (1989) 93, 19 (1993) 917
Linear system 18 (1992) 195, 19 (1993) 303
Linear systems of equations 16 (1990) 1
Linear systolic array 13 (1990) 119, 15 (1990) 227
Linpack 17 (1991) 1153
LINPACK benchmark 18 (1992) 231
List ranking 18 (1992) 511
List scheduling 19 (1993) 1321
Load 18 (1992) 595

Load balance 19 (1993) 713
Load balance analysis 17 (1991) 1425
Load balancing 12 (1989) 145, 13 (1990) 359, 15 (1990) 201, 16 (1990) 75, 18 (1992) 449
18 (1992) 625, 19 (1993) 409, 19 (1993) 1199, 19 (1993) 1313, 20 (1994) 77
20 (1994) 197, 20 (1994) 1069
Load imbalance 20 (1994) 853
Loading strategies 17 (1991) 633
Load sharing 20 (1994) 853
Load threshold 20 (1994) 325
Local interactive convergence algorithm 19 (1993) 765
Localized communication 19 (1993) 323
Local memory 14 (1990) 31
Local memory multiprocessor 13 (1990) 359, 13 (1990) 377, 15 (1990) 101, 16 (1990) 125, 18 (1992) 849
Local-memory multiprocessor systems 19 (1993) 187
Local memory parallel computer 12 (1989) 351, 14 (1990) 61, 15 (1990) 75, 17 (1991) 673
Locks 17 (1991) 101
Longest common subsequence 20 (1994) 1323
Long-range correlations 14 (1990) 207
Long-range interactions 19 (1993) 1029
Loop-level parallelism 20 (1994) 729
Loop nests 20 (1994) 679
Loops 19 (1993) 197
Loop transformation 18 (1992) 625, 20 (1994) 679, 20 (1994) 711
Loosely-coupled multiprocessor system 20 (1994) 63
Lower bounds 18 (1992) 345, 18 (1992) 595
Lowest common ancestors 18 (1992) 511
LU-decomposition 17 (1991) 751, 17 (1991) 1397, 18 (1992) 959
19 (1993) 303, 19 (1993) 925, 19 (1993) 1393
LU factorization 15 (1990) 133, 18 (1992) 231, 20 (1994) 257
Lutel 17 (1991) 845

MA and ARMA filters 18 (1992) 997
MA, AR, ARMA filters 20 (1994) 29
Machine performance 17 (1991) 1173
Macrotasking 12 (1989) 259, 17 (1991) 733, 17 (1991) 907
Magic square 20 (1994) 799
Maintenance architecture 18 (1992) 901
Many-body perturbation theory 17 (1991) 733
Mapping 18 (1992) 185, 19 (1993) 33, 20 (1994) 679
Mapping algorithm 18 (1992) 297, 19 (1993) 621
Mapping problem 17 (1991) 361, 17 (1991) 1009, 18 (1992) 1157, 20 (1994) 1129
Mapping strategy 20 (1994) 1613
Massively parallel SIMD architectures 19 (1993) 163
Massively parallel 12 (1989) 209
Massively parallel architecture 18 (1992) 57, 20 (1994) 1763
Massively parallel computation 18 (1992) 361
Massively parallel computers 18 (1992) 1079, 20 (1994) 1685
Massively parallel computing 18 (1992) 675
Massively parallel distributed memory architectures 20 (1994) 1443
Massively-parallel processors 20 (1994) 389
Massively parallel system 20 (1994) 417, 20 (1994) 481, 20 (1994) 1583
Massively parallel transputer-networks 17 (1991) 1397
Massive parallelism 18 (1992) 517
Matching 17 (1991) 643
Mathematical software 17 (1991) 311
Matrix computations 16 (1990) 27, 16 (1990) 59
Matrix decomposition 11 (1989) 201
Matrix distribution 16 (1990) 27
Matrix factorisation 15 (1990) 107
Matrix inverse 18 (1992) 195, 19 (1993) 303

Matrix inversion 14 (1990) 223, 17 (1991) 591, 19 (1993) 243, 19 (1993) 577
Matrix modification 17 (1991) 265
Matrix multiplication 12 (1989) 335, 13 (1990) 211, 14 (1990) 229, 16 (1990) 351
17 (1991) 311, 19 (1993) 1235, 20 (1994) 919, 20 (1994) 953
Matrix product 12 (1989) 249
Matrix squaring 17 (1991) 49
Matrix squaring method 14 (1990) 77
Matrix-transpose algorithm 16 (1990) 125
Matrix vector multiplication 17 (1991) 515, 17 (1991) 1409, 18 (1992) 997
Maximal rank decoupling 19 (1993) 257
Maximum matching 13 (1990) 245
Maximum weight clique 13 (1990) 253
Max-min product 18 (1992) 551
M-cache 20 (1994) 1269
Measure problem 13 (1990) 61, 17 (1991) 683
Meiko CS-2 20 (1994) 389, 20 (1994) 497
Meiko CS-2 MPP 20 (1994) 1627
Memory access 17 (1991) 579
Memory access problems 17 (1991) 329
Memory coherence 20 (1994) 1007
Memory contention 17 (1991) 579
Memory hierarchy 13 (1990) 47, 18 (1992) 719
Mergesort 18 (1992) 335
Merging 14 (1990) 89
Merging algorithm 18 (1992) 1
Mesh 18 (1992) 401, 18 (1992) 779
Mesh-connected arrays 18 (1992) 281
Mesh-connected computer 17 (1991) 241, 17 (1991) 505, 17 (1991) 657
Mesh-connected network 13 (1990) 301
Mesh-connected processor array 12 (1989) 107
Mesh-of-trees of processors 19 (1993) 1283
Mesh refinement 20 (1994) 1069
Message bandwidth 18 (1992) 1067
Message-directed programming 20 (1994) 1269
Message passing 14 (1990) 31, 16 (1990) 125, 17 (1991) 75, 19 (1993) 1259
20 (1994) 445, 20 (1994) 463, 20 (1994) 481, 20 (1994) 497
20 (1994) 509, 20 (1994) 531, 20 (1994) 547, 20 (1994) 597
20 (1994) 615, 20 (1994) 633, 20 (1994) 657, 20 (1994) 1397
20 (1994) 1427, 20 (1994) 1519, 20 (1994) 1613
Message-passing architecture 11 (1989) 171
Message Passing Interface (MPI) 20 (1994) 417, 20 (1994) 597
Message-passing model 20 (1994) 173
Message passing multiprocessor 15 (1990) 21, 19 (1993) 595
Message passing systems 16 (1990) 27, 16 (1990) 99, 19 (1993) 633, 19 (1993) 949
Method of characteristics 16 (1990) 293
Method of lines (MOL) 11 (1989) 263
Methodology for designing a VLSI algorithm 12 (1989) 195
MHD equilibrium computation 18 (1992) 743
Microcode compaction 18 (1992) 497
Microcode programs 20 (1994) 215
Microkernel family 20 (1994) 1471
Micro-measurements 17 (1991) 1131
Microprogramming 17 (1991) 207
Microscopic traffic simulation 20 (1994) 125
Microtasking 12 (1989) 259, 13 (1990) 225, 17 (1991) 17, 17 (1991) 907, 17 (1991) 1425
MIMD 14 (1990) 31, 17 (1991) 1, 18 (1992) 543, 19 (1993) 1063
20 (1994) 1397, 20 (1994) 1427, 20 (1994) 1547
MIMD algorithms 12 (1989) 95
MIMD Balance system 17 (1991) 925

MIMD computer 12 (1989) 157, 12 (1989) 183, 13 (1990) 193, 14 (1990) 207, 15 (1990) 133, 15 (1990) 147, 17 (1991) 591, 17 (1991) 665, 17 (1991) 1035, 18 (1992) 867, 18 (1992) 879, 19 (1993) 545
MIMD machines 17 (1991) 155
MIMD systems 14 (1990) 229
Minimal change order 20 (1994) 353
Minimal communication path 17 (1991) 95
Minimal solutions 14 (1990) 261
Minimal training set 14 (1990) 249
Minimum path systems 19 (1993) 343
Minimum spanning forest 15 (1990) 179, 19 (1993) 95
Minimum spanning tree 17 (1991) 527, 18 (1992) 1143
Minimum spanning tree problem 12 (1989) 45
Mini-supercomputer 11 (1989) 305
MIPS 17 (1991) 1153
Mixed generator 13 (1990) 193
Mixed-radix conversion 19 (1993) 1303
Modeling 18 (1992) 793, 19 (1993) 633, 20 (1994) 1583
Modelling of memory access 11 (1989) 361
Model problem 11 (1989) 37
Modified mesh 17 (1991) 75
Modular neural network 14 (1990) 249, 17 (1991) 361
Molecular dynamics 14 (1990) 211, 18 (1992) 557, 19 (1993) 1029
Molecular dynamics simulation 20 (1994) 173
Molecular electronics 18 (1992) 313
Monte Carlo 13 (1990) 193
Monte Carlo radiation transport 20 (1994) 991
Monte Carlo simulation 13 (1990) 345, 20 (1994) 1571
Monte Carlo type algorithm 18 (1992) 121
Moore-Penrose Inverse 20 (1994) 297
More abstract programming models 20 (1994) 1443
Morphology 13 (1990) 337, 17 (1991) 85
MPI 20 (1994) 565
MPP 20 (1994) 1427
Multicasting 20 (1994) 325
Multicolor relaxation 17 (1991) 1, 20 (1994) 1547
Multicolouring 14 (1990) 61
Multicommodity problems 18 (1992) 1393
Multicomputer 17 (1991) 109, 18 (1992) 31, 20 (1994) 257
Multicomputer systems 20 (1994) 1269
Multi-dimensional meshes 20 (1994) 1289
Multigrid 19 (1993) 23, 20 (1994) 1397, 20 (1994) 1559, 20 (1994) 1571
Multigrid method 12 (1989) 21, 17 (1991) 1, 18 (1992) 21, 20 (1994) 1547
Multilayer perceptrons 14 (1990) 261, 14 (1990) 277
Multi-level algorithm 19 (1993) 209
Multilevel LU-factorization 15 (1990) 21
Multilinear forms 15 (1990) 261
Multipipelines 17 (1991) 941
Multiple buses 20 (1994) 1303
Multiple coherence algorithms 20 (1994) 1007
Multiple disks 19 (1993) 839
Multiple instruction stream architecture 18 (1992) 1349
Multiple processor systems 18 (1992) 1415
Multiple shooting 17 (1991) 347, 20 (1994) 275
Multiplicative-additive scheme 13 (1990) 193
Multiprocessing 16 (1990) 157, 18 (1992) 543
Multiprocessor 11 (1989) 131, 16 (1990) 69, 18 (1992) 625, 19 (1993) 455, 20 (1994) 729, 20 (1994) 1249
Multiprocessor computer 19 (1993) 1259
Multiprocessor configurations 19 (1993) 343

Multiprocessor efficiency 14 (1990) 31, 17 (1991) 1, 20 (1994) 1547
Multiprocessor implementation 16 (1990) 221
Multiprocessor machines 18 (1992) 1
Multiprocessor performance 19 (1993) 463
Multiprocessor radius 18 (1992) 361
Multiprocessor scaling 18 (1992) 361
Multiprocessor Sequent Balance 12 (1989) 95
Multiprocessor systems 17 (1991) 699, 17 (1991) 763, 17 (1991) 821, 17 (1991) 1247, 17 (1991) 1361
19 (1993) 281, 19 (1993) 525, 19 (1993) 651, 19 (1993) 1105
Multiprocessor task systems 20 (1994) 15
Multiscattering 20 (1994) 313
Multiselection 17 (1991) 689
Multistage 20 (1994) 887
Multistage interconnection networks 19 (1993) 693
Multitasking 12 (1989) 95, 12 (1989) 259, 13 (1990) 225
13 (1990) 261, 15 (1990) 3, 17 (1991) 907
Multi-transputer system 13 (1990) 345, 19 (1993) 1019
Multivañable approximation 17 (1991) 483
Multi-way merging and sorting 14 (1990) 89
Mutual correlation 13 (1990) 193
Mutual exclusion problem 12 (1989) 359

Navier-Stokes 19 (1993) 23
Navier–Stokes equations 14 (1990) 1, 15 (1990) 47, 20 (1994) 1191
NCUBE 17 (1991) 763
nCUBE 2 19 (1993) 1259, 19 (1993) 1321
Ncube 6400 17 (1991) 1285
nCUBE Network Communication Unit 20 (1994) 509
nCUBE 2S 20 (1994) 509
Nearest neighbor classification 17 (1991) 381
Nearest-neighbor strategy 13 (1990) 1
Nearest-neighbour coupling 12 (1989) 113
Nested dissection 16 (1990) 139
Nested Interactive Array Language (Nial) 11 (1989) 331
Nested loop 18 (1992) 625
Nest of loops 18 (1992) 481
NETTALK 14 (1990) 329
Network algorithms, data structures 18 (1992) 1033
Network connectivity 12 (1989) 375
Networked computing platforms 20 (1994) 531
Network flow problem 19 (1993) 1019
Network of processors with local memories 16 (1990) 239
Network of workstations 19 (1993) 1079
Network partitioning 20 (1994) 325
Network topology 13 (1990) 17, 20 (1994) 115
Neural network 14 (1990) 287, 14 (1990) 305, 14 (1990) 329, 14 (1990) 347, 14 (1990) 363
14 (1990) 405, 16 (1990) 279, 16 (1990) 287, 17 (1991) 229, 17 (1991) 821
18 (1992) 57, 18 (1992) 325, 18 (1992) 401, 19 (1993) 63, 19 (1993) 163, 20 (1994) 347
Neural network algorithm 14 (1990) 381
New tearing algorithm 17 (1991) 133
Newton interpolation 17 (1991) 493
Newton method 18 (1992) 31
Nonlinear dynamics 12 (1989) 113
Nonlinear elliptic PDE 19 (1993) 1117
Non-linear multigrid 16 (1990) 335
Nonlinear network optimization 17 (1991) 873
Nonlinear optimization 13 (1990) 101, 18 (1992) 31
Non-linear parabolic P.D.E. 18 (1992) 879
Nonlinear programming 18 (1992) 1393

Non-linear scheduling 18 (1992) 415
Nonlinear system of equations 20 (1994) 1249
Nonlinear systems 20 (1994) 1129
Nonpreemptive scheduling 20 (1994) 869
Nonsymmetric linear systems 16 (1990) 375
Nonsymmetric systems 11 (1989) 223, 20 (1994) 1129
Nonsystolic algorithm 20 (1994) 919
Non-unimodular 20 (1994) 711
NP-complete 17 (1991) 983
NP-completeness 16 (1990) 157, 18 (1992) 393
Numerical algorithms 13 (1990) 159, 18 (1992) 661
Numerical analysis 19 (1993) 1003
Numerical computation 20 (1994) 1487
Numerical experiments 11 (1989) 55, 19 (1993) 9
Numerical linear algebra 17 (1991) 751, 17 (1991) 779, 18 (1992) 1325
Numerical methods 17 (1991) 311, 18 (1992) 767
Numerical software 17 (1991) 751
Numerical stability 20 (1994) 197, 20 (1994) 1161
NX interface 20 (1994) 463

Object orientation 20 (1994) 1471
Occam 15 (1990) 227, 18 (1992) 31, 18 (1992) 811, 19 (1993) 685
OCCAM, BS^3 20 (1994) 903
Occam process 17 (1991) 895
Odd-even cyclic reduction 20 (1994) 787
Odd-even reduction 19 (1993) 545
Odd-even sorting 20 (1994) 115
Odd-even transposition 16 (1990) 369
On-line error-detection, packet-switched routing 18 (1992) 1079
1-D and 2-D arrays 18 (1992) 415
Open ear decomposition 19 (1993) 873
Operating systems 12 (1989) 359
Optimal communication 19 (1993) 1235
Optimal completion time algorithms 18 (1992) 1233
Optimal control 13 (1990) 261, 17 (1991) 347
Optimal control, optimization 19 (1993) 1003
Optimal parallel algorithms 13 (1990) 61, 13 (1990) 143
Optimization 11 (1989) 121, 14 (1990) 347, 16 (1990) 269, 20 (1994) 1487
Optimization methods 17 (1991) 619, 18 (1992) 297
Optimized load balance 19 (1993) 103
Optimum supervised learning 14 (1990) 363
Order determination 20 (1994) 1711
Ordered trees 18 (1992) 511
Orderings 19 (1993) 481
Ordinary and partial differential equations 16 (1990) 1
Ordinary differential equations 12 (1989) 343, 17 (1991) 957, 19 (1993) 651, 20 (1994) 275
Orthogonal basis functions 17 (1991) 483
Orthogonal factorization 17 (1991) 1385
Orthogonalisation 17 (1991) 1043
Orthogonal multiprocessors 18 (1992) 213
Orthogonal Procrustes problem 17 (1991) 913
Orthogonal redistribution 16 (1990) 125
Orthogonal transformations 13 (1990) 281
Overall execution time 17 (1991) 633
Overlap 19 (1993) 839
Overview 20 (1994) 417

p4 system architecture 20 (1994) 547
Packet-switched networks 18 (1992) 1393
Packet switching 19 (1993) 125

Padé approximation 18 (1992) 75
Pancake 19 (1993) 95
Parabolic equations 19 (1993) 979
Parabolic p.d.e 18 (1992) 21
Parallel 20 (1994) 1427
Parallel algorithm 11 (1989) 17, 11 (1989) 291, 12 (1989) 71, 12 (1989) 121, 12 (1989) 145
12 (1989) 171, 12 (1989) 183, 12 (1989) 351, 13 (1990) 95, 13 (1990) 119
13 (1990) 135, 13 (1990) 211, 13 (1990) 245, 13 (1990) 253, 13 (1990) 289
14 (1990) 51, 14 (1990) 61, 14 (1990) 151, 14 (1990) 211, 15 (1990) 61
15 (1990) 75, 15 (1990) 87, 15 (1990) 133, 15 (1990) 179, 15 (1990) 201
15 (1990) 241, 15 (1990) 261, 16 (1990) 157, 16 (1990) 293, 17 (1991) 241
17 (1991) 279, 17 (1991) 381, 17 (1991) 443, 17 (1991) 505, 17 (1991) 643
17 (1991) 683, 17 (1991) 689, 17 (1991) 779, 17 (1991) 895, 18 (1992) 31
18 (1992) 103, 18 (1992) 109, 18 (1992) 169, 18 (1992) 177, 18 (1992) 221
18 (1992) 269, 18 (1992) 281, 18 (1992) 431, 18 (1992) 511, 18 (1992) 543
18 (1992) 551, 18 (1992) 649, 18 (1992) 811, 18 (1992) 897, 18 (1992) 1009
18 (1992) 1301, 18 (1992) 1317, 19 (1993) 187, 19 (1993) 229, 19 (1993) 703
19 (1993) 917, 19 (1993) 925, 19 (1993) 973, 19 (1993) 1029, 19 (1993) 1117
20 (1994) 115, 20 (1994) 233, 20 (1994) 347, 20 (1994) 353, 20 (1994) 753
20 (1994) 807, 20 (1994) 897, 20 (1994) 1191, 20 (1994) 1323, 20 (1994) 1369
Parallel algorithms in Nial 11 (1989) 331
Parallel application software 20 (1994) 1669
Parallel architecture efficiency 12 (1989) 1
Parallel architectures 11 (1989) 131, 18 (1992) 1167
Parallel artificial intelligence 20 (1994) 1369
Parallel asynchronous algorithm 17 (1991) 165, 19 (1993) 887
Parallel band solver 16 (1990) 221
Parallel block factorization for sparse matrices 16 (1990) 239
Parallel branch-and-bound algorithms 11 (1989) 121
Parallel complexity 17 (1991) 55
Parallel computation 17 (1991) 435, 17 (1991) 553, 20 (1994) 275
Parallel computer 13 (1990) 211, 14 (1990) 99, 15 (1990) 119, 17 (1991) 311, 18 (1992) 231
18 (1992) 767, 18 (1992) 1301, 18 (1992) 1363, 19 (1993) 979, 19 (1993) 1273
20 (1994) 1, 20 (1994) 869, 20 (1994) 991, 20 (1994) 1289
Parallel computer implementation 12 (1989) 315
Parallel computer performance 18 (1992) 1301
Parallel computing 12 (1989) 359, 13 (1990) 101, 13 (1990) 193, 13 (1990) 261, 13 (1990) 289
14 (1990) 207, 16 (1990) 269, 17 (1991) 207, 18 (1992) 21, 18 (1992) 661
18 (1992) 1023, 18 (1992) 1079, 19 (1993) 209, 20 (1994) 1583
Parallel cyclic reduction 16 (1990) 361
Parallel data structures 19 (1993) 497
Parallel efficiency 19 (1993) 1375
Parallel elimination 11 (1989) 73, 14 (1990) 31
Parallel evaluation of low degree polynomials 13 (1990) 73
Parallel execution 11 (1989) 1
Parallel execution time 18 (1992) 361
Parallel FFT 15 (1990) 61
Parallel Gauss elimination 18 (1992) 959
Parallel genetic algorithm 17 (1991) 619
Parallel graph algorithm 17 (1991) 527, 19 (1993) 873
Parallel graph reduction 17 (1991) 189
Parallel implementation 14 (1990) 129, 17 (1991) 873, 17 (1991) 913, 17 (1991) 1323, 19 (1993) 1
19 (1993) 177, 19 (1993) 633, 19 (1993) 667, 19 (1993) 859, 19 (1993) 1019
20 (1994) 1107, 20 (1994) 1221, 20 (1994) 1357, 20 (1994) 1675
Parallel implementation features 17 (1991) 221
Parallel implementation techniques 19 (1993) 1105
Parallelisation of preconditioning 11 (1989) 37
Parallelising compilation 20 (1994) 711
Parallelism 17 (1991) 1257, 20 (1994) 297

Parallelism in process control 18 (1992) 1415
Parallel iterative methods 11 (1989) 241, 13 (1990) 271
Parallel iterative solvers 20 (1994) 375
Parallelization 11 (1989) 121, 12 (1989) 343, 17 (1991) 1, 17 (1991) 297, 17 (1991) 347
20 (1994) 1559, 20 (1994) 1571, 20 (1994) 1689
Parallelization of serial code 18 (1992) 1023
Parallelization results 19 (1993) 1427
Parallelization strategy 20 (1994) 63, 20 (1994) 399
Parallelization techniques 19 (1993) 103, 19 (1993) 1413
Parallelization tools 20 (1994) 1443
Parallelizing compilers 17 (1991) 1247, 20 (1994) 1443
Parallel learning 18 (1992) 133
Parallel libraries 20 (1994) 565
Parallel linear algebra 11 (1989) 55, 11 (1989) 187, 11 (1989) 201
11 (1989) 367, 12 (1989) 95, 12 (1989) 343, 20 (1994) 807
Parallel LU-factorization 17 (1991) 181
Parallel merging 15 (1990) 165
Parallel (MIMD) algorithms 19 (1993) 1129
Parallel MIMD architectures 18 (1992) 615
Parallel multigrid 18 (1992) 449
Parallel numerical algorithm 11 (1989) 241, 12 (1989) 21
Parallel numerical library 20 (1994) 1639
Parallel numerical methods 18 (1992) 1259
Parallel operating systems 20 (1994) 1471
Parallel overhead 17 (1991) 1361
Parallel partitional clustering algorithm 11 (1989) 275
Parallel paths 20 (1994) 1721
Parallel performance 18 (1992) 269, 19 (1993) 1063
Parallel performance simulation and measurement 18 (1992) 449
Parallel pivoting 11 (1989) 201
Parallel Poisson and biharmonic solvers 18 (1992) 11
Parallel prefix technique 18 (1992) 699
Parallel processing 11 (1989) 17, 12 (1989) 1, 13 (1990) 175, 13 (1990) 321, 13 (1990) 345
14 (1990) 305, 15 (1990) 267, 17 (1991) 285, 17 (1991) 361, 17 (1991) 733
17 (1991) 1093, 17 (1991) 1425, 18 (1992) 931, 18 (1992) 947
19 (1993) 79, 19 (1993) 143, 19 (1993) 343, 19 (1993) 1003
20 (1994) 1303, 20 (1994) 1527, 20 (1994) 1605, 20 (1994) 1711
Parallel processing performance 17 (1991) 1257
Parallel processing projects 20 (1994) 1389
Parallel processor 11 (1989) 223, 13 (1990) 271, 16 (1990) 173, 17 (1991) 695
20 (1994) 1027, 20 (1994) 1205
Parallel programming 11 (1989) 331, 12 (1989) 259, 13 (1990) 225, 15 (1990) 3, 17 (1991) 751
17 (1991) 1025, 18 (1992) 931, 19 (1993) 197, 19 (1993) 949
Parallel programming independent of the network topology 16 (1990) 239
Parallel programming library 20 (1994) 445
Parallel programming paradigm 20 (1994) 633
Parallel programs 17 (1991) 1303
Parallel prolog 19 (1993) 685
Parallel Quicksort 14 (1990) 111
Parallel random access machine (PRAM) 13 (1990) 253, 17 (1991) 643
Parallel random number generator 18 (1992) 839
Parallel reduction 11 (1989) 201
Parallel reservoir simulation 13 (1990) 359
Parallel routing algorithm 20 (1994) 1739
Parallel scientific computing 20 (1994) 1069
Parallel simulation 19 (1993) 219
Parallel skeletons 19 (1993) 1141
Parallel sorting 16 (1990) 273
Parallel sorting algorithms 19 (1993) 595, 19 (1993) 1079
Parallel sorting and merging 14 (1990) 111

Parallel sorting by regular sampling 19 (1993) 1079
Parallel speedup 17 (1991) 1093
Parallel SVD 17 (1991) 39
Parallel system 20 (1994) 1397
Parallel techniques 17 (1991) 907
Parallel test suite 17 (1991) 1247
Parallel thinning algorithms 17 (1991) 17
Parallel tridiagonal solvers 17 (1991) 181
Parallel updating procedure 20 (1994) 151
Parallel URV decomposition 20 (1994) 151
Parentheses matching 19 (1993) 229
PARMACS 19 (1993) 1413, 19 (1993) 1427, 20 (1994) 615, 20 (1994) 1519
20 (1994) 1639, 20 (1994) 1653, 20 (1994) 1669, 20 (1994) 1675
Parsing 18 (1992) 699
Partial asynchronism 20 (1994) 853
Partial differential equations 12 (1989) 131, 12 (1989) 145, 16 (1990) 293, 20 (1994) 1559
Partial pivoting 14 (1990) 199
Partial singular value decomposition 20 (1994) 1107
Particle physics experiments 19 (1993) 685
Particle simulation 18 (1992) 269
Partition 15 (1990) 147, 16 (1990) 369, 17 (1991) 665
Partitioned linear transformation 18 (1992) 525
Partitioning 13 (1990) 85, 17 (1991) 873, 18 (1992) 867, 20 (1994) 679
Partitioning of grids 20 (1994) 815
Partitioning technique 18 (1992) 481
Partition problem 16 (1990) 343
PASCAL 17 (1991) 779
Path 17 (1991) 657
Path contention 20 (1994) 1613
Pattern analysis 11 (1989) 275
Pattern recognition 11 (1989) 291, 18 (1992) 401
P-cyclic system 19 (1993) 79
PDD algorithm 17 (1991) 265
PDE problems 15 (1990) 147, 17 (1991) 665
PDE solver 20 (1994) 1397
Peano curve 18 (1992) 1259
Perceptron 18 (1992) 133, 18 (1992) 983, 20 (1994) 347, 20 (1994) 799
Perfect Benchmarks suite 17 (1991) 1257
Performance 16 (1990) 75, 19 (1993) 993, 20 (1994) 463, 20 (1994) 531
20 (1994) 547, 20 (1994) 615, 20 (1994) 1427
Performance analysis 11 (1989) 17, 11 (1989) 55, 11 (1989) 117, 11 (1989) 121, 12 (1989) 209
13 (1990) 73, 14 (1990) 1, 15 (1990) 75, 17 (1991) 579
18 (1992) 241, 19 (1993) 595, 19 (1993) 807, 19 (1993) 823
19 (1993) 1345, 20 (1994) 233, 20 (1994) 1249, 20 (1994) 1583
Performance characterisation 15 (1990) 107
Performance comparisons 20 (1994) 729
Performance estimates 13 (1990) 35
Performance evaluation 17 (1991) 619, 17 (1991) 809, 17 (1991) 895, 17 (1991) 1073, 17 (1991) 1131
17 (1991) 1425, 19 (1993) 9, 19 (1993) 455, 19 (1993) 633, 19 (1993) 897
20 (1994) 325, 20 (1994) 807, 20 (1994) 1269, 20 (1994) 1613
Performance improvements 18 (1992) 149
Performance maximisation 15 (1990) 107
Performance measurement 12 (1989) 45, 12 (1989) 209, 12 (1989) 327, 13 (1990) 17, 13 (1990) 369
16 (1990) 313, 17 (1991) 1093, 20 (1994) 125, 20 (1994) 975, 20 (1994) 1205
Performance metric 13 (1990) 17, 17 (1991) 1073, 17 (1991) 1195
Performance model for parallel processors 12 (1989) 1
Performance modelling 14 (1990) 329, 20 (1994) 1527
Performance models 17 (1991) 121
Performance parameters 17 (1991) 1111

Performance profile 17 (1991) 1211
Performance results 14 (1990) 229, 15 (1990) 101, 16 (1990) 335, 17 (1991) 1195, 17 (1991) 1275, 17 (1991) 1285, 18 (1992) 207, 18 (1992) 231, 18 (1992) 1201, 19 (1993) 1, 19 (1993) 1053, 19 (1993) 1413, 20 (1994) 363, 20 (1994) 399, 20 (1994) 919, 20 (1994) 1221, 20 (1994) 1639, 20 (1994) 1675, 20 (1994) 1697, 20 (1994) 1711
Performance study 17 (1991) 527
Performance visualization 17 (1991) 1303
Periodic mesh 17 (1991) 95
Period of algorithm 17 (1991) 493
Permutation 15 (1990) 267, 19 (1993) 323, 20 (1994) 1027
Permutation generation 20 (1994) 353, 20 (1994) 775
Permutation groups 19 (1993) 361
Petri nets 11 (1989) 349
Physiological models 12 (1989) 113
Pipelined computation 13 (1990) 111
Pipelined iterative techniques 11 (1989) 187
Pipelined sort 19 (1993) 839
Pipelines 17 (1991) 983, 17 (1991) 1043
Pipeline timing results 20 (1994) 215
Pipelining 19 (1993) 729, 20 (1994) 729
Pipelining schemes 20 (1994) 197
Pivoting 14 (1990) 51
Pivoting strategies 20 (1994) 197
Planar dominance counting 15 (1990) 241
Plasma simulator 18 (1992) 743
Point-to-point communication 20 (1994) 565, 20 (1994) 657
Poisson model problem 20 (1994) 1055
Polar decomposition 20 (1994) 1161
Polynomial evaluation 20 (1994) 1205
Polynomial-in-time algorithms 20 (1994) 15
Polynomial root-finders 17 (1991) 673
Polynomial root solver 15 (1990) 227
Polynomials 17 (1991) 493
Polynomial zeros 12 (1989) 351, 15 (1990) 75
Population dynamic models 18 (1992) 767
Portability 15 (1990) 119, 19 (1993) 409, 20 (1994) 363, 20 (1994) 547, 20 (1994) 565, 20 (1994) 615, 20 (1994) 1397, 20 (1994) 1519, 20 (1994) 1639, 20 (1994) 1653, 20 (1994) 1689
Portability platform 20 (1994) 417
Portable message passing interface 20 (1994) 1669
Portable programming 20 (1994) 1605
Post-mortem analysis 18 (1992) 1381
Power method 14 (1990) 77, 17 (1991) 49
PRAM model 19 (1993) 713, 19 (1993) 873
Precedence graph 20 (1994) 1583
Preconditioned conjugate gradient method 11 (1989) 37, 14 (1990) 191
Preconditioned interval linear solver 20 (1994) 1249
Preconditioning 16 (1990) 313
Preemptive 20 (1994) 887
Preemptive schedule 20 (1994) 15
Prefix sums 19 (1993) 229
Primitive trinomial 18 (1992) 839
Prim's algorithm 12 (1989) 45
Probabilistic analysis 19 (1993) 455
Problem decomposition 17 (1991) 361
Problem insolubility 16 (1990) 157
Problem scaling 18 (1992) 361
Problem-size independent 17 (1991) 515
Process allocation 15 (1990) 201
Process blocking 17 (1991) 1377

Process groups 20 (1994) 657
Processing power 17 (1991) 75
Processor array 17 (1991) 279, 19 (1993) 437, 20 (1994) 375
Processor farms 19 (1993) 1141
Processor ring 13 (1990) 85, 13 (1990) 377
Processors 18 (1992) 177
Processors array with reconfigurable bus system 20 (1994) 1303
Processor scheduling 17 (1991) 471, 20 (1994) 869
Processor scheduling problem 19 (1993) 1321
Processor-time optimal solutions 12 (1989) 71
Process scheduling and synchronization 12 (1989) 359
Profiling 19 (1993) 1141
Program allocation 13 (1990) 17
Program analysis 20 (1994) 1487
Program derivation scheme 20 (1994) 257
Program equivalence 18 (1992) 1167
Program families 20 (1994) 1471
Programming environment 16 (1990) 239, 20 (1994) 1269
Programming language 14 (1990) 99
Programming model 19 (1993) 1393
Programming paradigms and tools 20 (1994) 1407
Programming style 20 (1994) 597
Programming techniques 12 (1989) 327
Program partitioning 16 (1990) 41
Program structure analysis 13 (1990) 309
Program synthesis 18 (1992) 1363
Program transformation 18 (1992) 1363
Projection methods 16 (1990) 375, 17 (1991) 435
Projector Quantum Monte Carlo method 20 (1994) 399
Project overview 20 (1994) 1605
Prolog 18 (1992) 1275
Propositional logic 17 (1991) 983
Prototyping 18 (1992) 793
PSC12 17 (1991) 845
Pseudorandom numbers 14 (1990) 207
PVM 19 (1993) 1053, 20 (1994) 1547
PVM system 20 (1994) 531

QCD 12 (1989) 209, 15 (1990) 3
QED 12 (1989) 209
QIF algorithm 15 (1990) 87
QR algorithm 20 (1994) 63
QR decomposition 17 (1991) 779, 18 (1992) 345, 19 (1993) 703, 20 (1994) 903
QR factorization 11 (1989) 55, 16 (1990) 99, 17 (1991) 409, 19 (1993) 939, 19 (1993) 1259
Quadratic assignment problem 11 (1989) 151, 17 (1991) 443
Quantum chemical application 19 (1993) 1053
Quark propagator 18 (1992) 1291
Query processing 17 (1991) 689
Queueing theory models 19 (1993) 897
Queues 17 (1991) 101
Queuing models 20 (1994) 77
Quickest path problem 18 (1992) 823
Quickmerge 14 (1990) 111
Quicksort 16 (1990) 369, 18 (1992) 91, 18 (1992) 335
Quicksort (median of 3) 17 (1991) 1035
Quorum security locks 17 (1991) 493

$(r_\infty, n_{1/2})$-parameters 11 (1989) 107
Randomized heuristics 13 (1990) 95, 18 (1992) 897, 18 (1992) 1157
Random number 13 (1990) 193

Random number generator	20 (1994) 1357
Rank annihilation	13 (1990) 85
Rank computation	20 (1994) 297
Rank one update	19 (1993) 563
Rarefied gas flows	19 (1993) 103
Rational interpolation	18 (1992) 75, 19 (1993) 577
Ready list scheduling heuristics	19 (1993) 1321
Real-time associative visual systems	19 (1993) 667
Real-time diagnostic system	19 (1993) 685
Real-time pattern matcher	12 (1989) 285
Real-time processing	13 (1990) 289
Recirculating hybrid sorter	17 (1991) 997
Reconfigurable meshes	19 (1993) 229
Reconfiguration	17 (1991) 941, 18 (1992) 1185
Recurrence equations	14 (1990) 163, 15 (1990) 189, 18 (1992) 1167
Recursive-clustering strategy	13 (1990) 1
Recursive decoupling	19 (1993) 563
Recursive expansion	19 (1993) 993
Recursive neural networks	20 (1994) 245
Redundant arithmetic	19 (1993) 729
Redundant precedence relations elimination	17 (1991) 471
Refinement	18 (1992) 1167
Register number minimum	12 (1989) 285
Regular array	16 (1990) 113
Regular array algorithms	17 (1991) 457
Regular array design	20 (1994) 711
Regular graphs	17 (1991) 279
Regular structure	20 (1994) 1583
Reinforcement	14 (1990) 405
Relaxation algorithms	17 (1991) 873, 18 (1992) 1033
Relaxation method	12 (1989) 21, 18 (1992) 1291
Relaxation parameter	13 (1990) 271
Reliability	18 (1992) 1185
Reordering	11 (1989) 73
Repeated plus-min algorithm	16 (1990) 61
Repeated Squaring	20 (1994) 297
Resampling	18 (1992) 1335
Reservoir simulation	16 (1990) 313
Residue arithmetic	19 (1993) 1303
Resolution algorithms	18 (1992) 1275
Resource allocation	20 (1994) 835
Resource sharing	11 (1989) 163
Result analysis	17 (1991) 1223
Results	17 (1991) 1247, 17 (1991) 1257
Retiming	18 (1992) 481
Ring topology	14 (1990) 211
River routing model	17 (1991) 997
Robotics	12 (1989) 221
Robustness	14 (1990) 277
Round-Robin algorithm	19 (1993) 437
Routing	20 (1994) 1721
Routing algorithm	19 (1993) 323, 19 (1993) 497, 20 (1994) 1763
Row/column buses	17 (1991) 75
r-step Runge–Kutta method	11 (1989) 245
Runge–Kutta methods	17 (1991) 957
Run-time overhead	18 (1992) 625
Satellite	18 (1992) 1335
Satisfiability	17 (1991) 983
Scalability	19 (1993) 1221

Scaled speedup 17 (1991) 1093
Scaling 14 (1990) 261, 17 (1991) 1361
Scaling laws 19 (1993) 1063
Scaling model 20 (1994) 173
Scattering 13 (1990) 377
"Scavenger" programming 17 (1991) 1025
Scheduling 16 (1990) 157, 16 (1990) 173, 17 (1991) 63, 17 (1991) 873, 20 (1994) 679
Scheduling algorithm 16 (1990) 69, 17 (1991) 55
Scheduling mechanism 16 (1990) 41
Scheduling on a hypercube 20 (1994) 15
Scheduling vector 18 (1992) 481
Schwarz alternating procedure 17 (1991) 165
Scientific benchmark 17 (1991) 1173
Scientific computing 20 (1994) 1397
Search 17 (1991) 63
Search methods 17 (1991) 619
Search problems 16 (1990) 279, 18 (1992) 325
Segment visibility 19 (1993) 973
Selection 17 (1991) 689
Self-adjusting coherence scheme 20 (1994) 1007
Self-organization 12 (1989) 113, 14 (1990) 363
Self-organizing feature map 17 (1991) 821
Semaphores 17 (1991) 101
Semiconductor devices 20 (1994) 1129
Semiconductor device simulator 20 (1994) 1689
Semi-regular graphs 17 (1991) 279
Send-ahead strategy 20 (1994) 257
Separable 18 (1992) 133
Sequent Balance 8000 multiprocessor 17 (1991) 1035
Sequent Symmetry S81 multicomputer 12 (1989) 45
Set cover problem 13 (1990) 295
Set of properties 16 (1990) 279, 18 (1992) 325
Shallow water 20 (1994) 1427
Shared memory 11 (1989) 223, 12 (1989) 157, 17 (1991) 101, 18 (1992) 313
Shared-memory and message-passing programming models 20 (1994) 1443
Shared memory architectures 19 (1993) 1079
Shared memory machines 11 (1989) 187, 17 (1991) 707, 19 (1993) 1
Shared-memory MIMD machine 15 (1990) 61, 17 (1991) 563
Shared memory multiprocessor 11 (1989) 55, 11 (1989) 321, 14 (1990) 89, 14 (1990) 111, 15 (1990) 165
15 (1990) 247, 16 (1990) 41, 16 (1990) 81, 16 (1990) 221, 16 (1990) 375
17 (1991) 579, 17 (1991) 751, 17 (1991) 779, 17 (1991) 873, 18 (1992) 91
18 (1992) 719, 18 (1992) 1009, 18 (1992) 1129, 19 (1993) 9, 19 (1993) 823
19 (1993) 925, 20 (1994) 93, 20 (1994) 233, 20 (1994) 1221
Shared memory multiprocessor system 18 (1992) 241
Shared memory PRAM 12 (1989) 121
Shared stack 17 (1991) 101
Shifter 20 (1994) 1027
Shift register sequences 15 (1990) 155
Shortest path problem 12 (1989) 259, 17 (1991) 311, 18 (1992) 103, 20 (1994) 1221
Shuffle-exchange 11 (1989) 93
SIEMENS VP supercomputers 11 (1989) 361
Signature analysis 18 (1992) 1079
Signed-digit adders 19 (1993) 729
SIMD 12 (1989) 209, 14 (1990) 99, 14 (1990) 329, 18 (1992) 699, 20 (1994) 1027
SIMD architecture 18 (1992) 1033
SIMD computer 11 (1989) 151
SIMD machine 17 (1991) 381, 18 (1992) 221, 18 (1992) 345, 20 (1994) 233
SIMD multi-processors 17 (1991) 221
SIMD multiprocessor system 18 (1992) 149
SIMD-SM-RW computer 16 (1990) 61

Simplex method 13 (1990) 235
Simplified structured partition problem 16 (1990) 41
SIMULA 12 (1989) 359
Simulated annealing 16 (1990) 269, 16 (1990) 287, 17 (1991) 221
17 (1991) 1009, 18 (1992) 297, 19 (1993) 859
Simulation 12 (1989) 113, 14 (1990) 287, 18 (1992) 1403
Simulation of a molecular liquid 11 (1989) 321
Simulation results 15 (1990) 277, 17 (1991) 133, 18 (1992) 719, 19 (1993) 63
Simulation study 19 (1993) 897, 20 (1994) 325
Simultaneous polynomial root-finders 12 (1989) 351
Singular value decomposition 11 (1989) 171, 17 (1991) 39, 17 (1991) 913, 20 (1994) 1161
S_n transport algorithm 19 (1993) 823
S-invariant 11 (1989) 349
SISAL 13 (1990) 175
Size 19 (1993) 993
Sizeup 17 (1991) 1093
Smallest enclosing rectangle 18 (1992) 221
Soft-systolic simulation 14 (1990) 77
Software 20 (1994) 1389, 20 (1994) 1427
Sollin's algorithm 12 (1989) 45
Solution of linear equations 11 (1989) 187
SOR method 14 (1990) 61
Sort 16 (1990) 369
Sorting 14 (1990) 89, 18 (1992) 335, 19 (1993) 1155
Sorting algorithms 11 (1989) 117, 15 (1990) 165
Sorting network 16 (1990) 369
Sorting Quicksort 18 (1992) 543
Space-time complexity 15 (1990) 211
Space-time mapping 19 (1993) 745
Spanning forest 13 (1990) 143
Spanning tree 17 (1991) 527, 18 (1992) 377, 18 (1992) 439, 18 (1992) 551, 18 (1992) 639
Sparse Cholesky decomposition 18 (1992) 849
Sparse Cholesky factorization 18 (1992) 1009, 19 (1993) 187
Sparse least-squares problems 13 (1990) 271
Sparse linear systems 18 (1992) 719
Sparse linear systems solver 16 (1990) 139
Sparse matrix 11 (1989) 73, 11 (1989) 201, 17 (1991) 553, 17 (1991) 1051, 17 (1991) 1409
18 (1992) 675, 19 (1993) 153, 19 (1993) 525, 20 (1994) 753
Sparse matrix computation 14 (1990) 151
Sparse matrix-vector multiplication 20 (1994) 1129
Sparse matrix vector operation 18 (1992) 675
Sparse storage techniques 17 (1991) 1409
Sparse system 17 (1991) 435, 20 (1994) 903
Sparse triangular systems 19 (1993) 187
SPEC 17 (1991) 1153, 17 (1991) 1195
Special purpose computer 15 (1990) 47
Special purpose hardware 20 (1994) 215
Spectral estimation 19 (1993) 463
Spectral method 20 (1994) 1191
Spectral transform 19 (1993) 1413
Speedup 12 (1989) 21, 12 (1989) 157, 15 (1990) 21, 17 (1991) 1111, 17 (1991) 1223
17 (1991) 1361, 18 (1992) 767, 18 (1992) 931, 18 (1992) 1259, 19 (1993) 839
19 (1993) 979, 19 (1993) 1375
Speedup analysis 13 (1990) 345, 17 (1991) 821, 18 (1992) 719, 18 (1992) 743, 19 (1993) 1283
Speed-up estimates 18 (1992) 149
Speedup factor 19 (1993) 103
Speedup measurements 19 (1993) 823
Speedup prediction 20 (1994) 375
Speedup results 17 (1991) 619, 19 (1993) 1105
Splittings 12 (1989) 171

SPMD programming 18 (1992) 867
Standards 20 (1994) 657
Star 19 (1993) 95
Startup time 18 (1992) 1067
State transition 17 (1991) 1377
Static process groups 20 (1994) 565
Static processor partition 19 (1993) 103
Static scheduler 20 (1994) 1583
Static workload analysis 20 (1994) 1613
Statistical physics 19 (1993) 1041
Stein-Rosenberg's theorem 19 (1993) 511
Stiff differential equations 20 (1994) 275
Stochastic delays 19 (1993) 281
Stochastic petri nets 17 (1991) 75
Stone's shuffle sort 17 (1991) 997
Store-and-forward deadlock 19 (1993) 125
Stride of 3 20 (1994) 1175
Stride of 3 reduction 20 (1994) 787
Strongly connected arc model 18 (1992) 901
Structured partition problem 16 (1990) 41
Subcube Matrix Decomposition (SMD) 20 (1994) 257
Substitution scheme 15 (1990) 189
Successive Underrelaxation (SUR) 16 (1990) 207
Suffix values 15 (1990) 189
Supercomputer 11 (1989) 305, 13 (1990) 295, 16 (1990) 343, 20 (1994) 1397, 20 (1994) 1427
Supercomputer benchmark 17 (1991) 1303
Supercomputer workload 17 (1991) 1173
Superlinear speedup 15 (1990) 107, 17 (1991) 695
Superscalar 20 (1994) 729
Superscalar processing 18 (1992) 497
Supervised learning 18 (1992) 983
SUPRENUM 17 (1991) 1, 18 (1992) 231, 20 (1994) 1389, 20 (1994) 1427
20 (1994) 1519, 20 (1994) 1527, 20 (1994) 1547, 20 (1994) 1605
Survey 19 (1993) 361
Sustained performance 17 (1991) 1111
Switching element 17 (1991) 941
Sylvester form 20 (1994) 1055
Symbolic computation 17 (1991) 29
Symbolic factorization 18 (1992) 849, 19 (1993) 153
Symbol processing 19 (1993) 1155
Symmetrical mapping 19 (1993) 1177
Symmetric band matrix 18 (1992) 1105
Symmetric bordering method 18 (1992) 195
Symmetric eigenproblem 17 (1991) 553
Symmetric Kaczmarz 16 (1990) 375
Symmetric mapping 18 (1992) 525, 20 (1994) 29
Symmetric matrices 13 (1990) 281, 17 (1991) 155
Symmetric routing algorithms 18 (1992) 1233
Symmetric sparse matrices 17 (1991) 763
Symmetric tridiagonal eigenvalue 18 (1992) 1301
Symmetry in networks 19 (1993) 361
Synapse parallelism 20 (1994) 245
Synchronization 12 (1989) 157, 17 (1991) 873, 17 (1991) 1111
Synchronization and communication overhead 12 (1989) 1
Synchronization problem 17 (1991) 997
Synchronous and asynchronous implementation 17 (1991) 707
Synergy of an iterative algorithm 11 (1989) 17
Synthesis 18 (1992) 185, 18 (1992) 415
Synthesis technique 14 (1990) 163
System architecture 20 (1994) 1627

System-level error detection 18 (1992) 1079
System model 18 (1992) 793
System performance 20 (1994) 1627
System performance measurements 13 (1990) 159
Systems performance 17 (1991) 1025, 17 (1991) 1195
Systolic algorithm 12 (1989) 107, 12 (1989) 221, 12 (1989) 285, 15 (1990) 267, 15 (1990) 277
17 (1991) 457, 17 (1991) 483, 17 (1991) 493, 18 (1992) 75, 18 (1992) 185
18 (1992) 377, 18 (1992) 575, 18 (1992) 1167, 20 (1994) 775, 20 (1994) 919
Systolic algorithm design 12 (1989) 195
Systolic architecture 11 (1989) 367, 12 (1989) 171, 13 (1990) 337, 15 (1990) 277, 17 (1991) 493
19 (1993) 33, 20 (1994) 297
Systolic array 11 (1989) 93, 12 (1989) 249, 12 (1989) 285, 13 (1990) 211
13 (1990) 301, 13 (1990) 321, 14 (1990) 163, 14 (1990) 199
14 (1990) 223, 15 (1990) 211, 15 (1990) 267, 16 (1990) 191, 16 (1990) 253
16 (1990) 351, 17 (1991) 207, 17 (1991) 515, 17 (1991) 523, 17 (1991) 997
18 (1992) 85, 18 (1992) 195, 18 (1992) 325, 18 (1992) 355, 18 (1992) 525
18 (1992) 997, 18 (1992) 1053, 19 (1993) 79, 19 (1993) 303, 19 (1993) 745
19 (1993) 1283, 19 (1993) 1303, 20 (1994) 903, 20 (1994) 1107, 20 (1994) 1323
Systolic array algorithm 18 (1992) 807
Systolic computation 14 (1990) 234
Systolic control ring instruction processor (SCRIP) 18 (1992) 355
Systolic Control Ring (SCR) 16 (1990) 253
Systolic convolver 12 (1989) 285
Systolic design 11 (1989) 385
Systolic implementation 19 (1993) 33
Systolic systems 12 (1989) 53

Table methods 16 (1990) 1
Taboo search 17 (1991) 443
Tangent vector computation 17 (1991) 1385
Task allocation 19 (1993) 463, 20 (1994) 835
Task allocation algorithms 19 (1993) 897, 20 (1994) 325
Task allocation (assignment) 19 (1993) 1359
Task and precedence graphs and systems 17 (1991) 471
Task assignment 16 (1990) 69, 17 (1991) 63, 17 (1991) 471, 20 (1994) 1
Task execution 19 (1993) 1321
Task graph 11 (1989) 241, 12 (1989) 183, 20 (1994) 835
Taskgraphs 19 (1993) 1313
Task scheduling 20 (1994) 1, 20 (1994) 77
Task-to-processor mapping problem 13 (1990) 1
Task-to-processor mappings 19 (1993) 1313
Task-transfer probability 19 (1993) 897
Taxonomy 17 (1991) 1073
Tensor products 13 (1990) 301, 17 (1991) 483
Test generation 17 (1991) 1323, 19 (1993) 177
Text searching 13 (1990) 369
Theorem proving 17 (1991) 983
Thinning of digital patterns 18 (1992) 47
Three-dimensional Poisson solvers 17 (1991) 121
Throughput performance 17 (1991) 285
Time analysis 19 (1993) 873
Time complexity 18 (1992) 177, 18 (1992) 213
Time complexity analysis 11 (1989) 275, 15 (1990) 241
Time-optimal VLSI arrays 19 (1993) 33
Time optimum 12 (1989) 285
Time-optimum polynomial divider 12 (1989) 285
Timing analysis 16 (1990) 27, 16 (1990) 61, 17 (1991) 633, 18 (1992) 807
Timing and allocation functions 14 (1990) 163
Timing estimates for data exchange operations 11 (1989) 131
Timing function 15 (1990) 211

Timing measurements 11 (1989) 107
Timing results 11 (1989) 321, 12 (1989) 95, 13 (1990) 199, 14 (1990) 129, 16 (1990) 343
17 (1991) 29, 17 (1991) 419, 17 (1991) 845, 17 (1991) 1017, 17 (1991) 1385
17 (1991) 1409, 18 (1992) 557, 19 (1993) 939, 19 (1993) 1105
19 (1993) 1259, 19 (1993) 1427, 20 (1994) 173, 20 (1994) 953
20 (1994) 1089, 20 (1994) 1335, 20 (1994) 1357
Toeplitz matrix 15 (1990) 261, 17 (1991) 563
Tools for partitioning 12 (1989) 259
Topological properties 20 (1994) 1763
Toroidal grid 18 (1992) 639
Torus-wrap mapping 19 (1993) 1259
Total exchange problem 18 (1992) 1233
Total least squares 20 (1994) 1107
Touchstone Delta 18 (1992) 1067
Trace-driven simulation 19 (1993) 219
Traffic modeling 20 (1994) 125
Training example 18 (1992) 983
Transcendental equation 18 (1992) 415
Transient time 18 (1992) 345
Transitive closure 12 (1989) 107, 17 (1991) 657
Translation lookaside buffer 17 (1991) 311
Transportable software 20 (1994) 1653
Transposition approach 20 (1994) 1335
Transputer 12 (1989) 351, 13 (1990) 85, 14 (1990) 211, 14 (1990) 229, 14 (1990) 381
16 (1990) 305, 16 (1990) 313, 17 (1991) 39, 17 (1991) 95, 17 (1991) 527
17 (1991) 1043, 18 (1992) 31, 18 (1992) 313, 18 (1992) 335, 18 (1992) 401
18 (1992) 811, 19 (1993) 177, 19 (1993) 979, 20 (1994) 115, 20 (1994) 125
20 (1994) 245, 20 (1994) 375, 20 (1994) 807, 20 (1994) 903, 20 (1994) 991
Transputer array 16 (1990) 361, 17 (1991) 361, 18 (1992) 207, 19 (1993) 595
Transputer-based systems 19 (1993) 961
Transputer network 15 (1990) 101, 16 (1990) 335, 17 (1991) 155, 17 (1991) 833, 17 (1991) 895
17 (1991) 1017, 18 (1992) 557, 19 (1993) 633, 19 (1993) 667, 19 (1993) 685
19 (1993) 807, 20 (1994) 313
Transputer ring topology 19 (1993) 1029
Transputer system 17 (1991) 821, 19 (1993) 609, 20 (1994) 1711
Traveling salesman problem 17 (1991) 221
Tree computation 11 (1989) 93
Tree machines 18 (1992) 103
Tree topology 17 (1991) 895
Triangle partitioning 16 (1990) 287
Triangular system 18 (1992) 169
Triangular system solver 17 (1991) 1385
Triangular system solving 17 (1991) 1397
Triangular task graph 17 (1991) 471
Tridiagonal linear system 16 (1990) 361, 17 (1991) 265, 17 (1991) 1017, 19 (1993) 545, 19 (1993) 563
19 (1993) 1273, 20 (1994) 1175
Tridiagonal matrix 15 (1990) 47, 15 (1990) 101, 18 (1992) 1129, 19 (1993) 925
Tridiagonal system 14 (1990) 31, 15 (1990) 189, 17 (1991) 419
Tridiagonal Toeplitz linear system solver 13 (1990) 289
Tridiagonal Toeplitz linear systems 18 (1992) 431
Tridiagonal Toeplitz system 20 (1994) 787
Tuned parallelism 17 (1991) 791
2- and 3-Dimensional assignment problems 11 (1989) 151
2-D to 1-D array mappings 13 (1990) 85
2-Point boundary value problem 17 (1991) 833
2-Steps precedence graph 18 (1992) 169
2-Way merge 18 (1992) 91
2-3 trees 16 (1990) 75
2×2 submatrix 19 (1993) 563
2D-grid 14 (1990) 317

Two-dimensional grids 17 (1991) 109
Two-layered mesh array 12 (1989) 249
Two-way merge algorithm 17 (1991) 1035

Ultrasound tomography 17 (1991) 791
Uncertain reasoning 19 (1993) 807
Unconditional stability 19 (1993) 979
Undirected connected graph 18 (1992) 377
Undirected graph (UDG) 19 (1993) 1359
UNICOS 17 (1991) 1303
Unification 18 (1992) 1275
Uniform processors 20 (1994) 15
Uniform random number generators 15 (1990) 155
Uniform recurrence equations 18 (1992) 481, 18 (1992) 1053
Uniform recurrent equations 15 (1990) 211
Universal *k*-selection 18 (1992) 177
Unshuffle 15 (1990) 189
Unsymmetric eigenvalue/eigenvector problem 13 (1990) 199
Updating 20 (1994) 1107
User libraries 20 (1994) 497

Variable precision technique 18 (1992) 1223
VARMAX-processes 20 (1994) 1711
Vector architecture 13 (1990) 47
Vector computation 14 (1990) 77
Vector computer 11 (1989) 113, 11 (1989) 117, 11 (1989) 361, 12 (1989) 327, 13 (1990) 35
17 (1991) 311, 17 (1991) 329, 17 (1991) 983, 20 (1994) 125
Vectorization 12 (1989) 343, 13 (1990) 261, 13 (1990) 295, 14 (1990) 31, 16 (1990) 157
16 (1990) 343, 17 (1991) 17, 17 (1991) 347, 17 (1991) 983, 17 (1991) 1051
18 (1992) 1335, 20 (1994) 1689
Vectorize 16 (1990) 369
Vector nodes 20 (1994) 1407
Vector/parallel computers 17 (1991) 809
Vector performance 13 (1990) 47
Vector processing 11 (1989) 171, 12 (1989) 233, 19 (1993) 1155
Vector processor 11 (1989) 107, 11 (1989) 223, 20 (1994) 1205
Vector processors 14 (1990) 191
Verification of algorithm 13 (1990) 119
Virtual shared memory 20 (1994) 633
Virtual shared memory architectures 20 (1994) 1443
Virtual topologies 20 (1994) 565
Vital edge 18 (1992) 1143
VLSI 12 (1989) 301, 18 (1992) 517, 20 (1994) 353, 20 (1994) 775
VLSI architecture 12 (1989) 53, 12 (1989) 71, 19 (1993) 525
VLSI circuits 19 (1993) 63
VLSI computational model 18 (1992) 11
VLSI computing structure 20 (1994) 1107
VLSI design 12 (1989) 285, 13 (1990) 61, 17 (1991) 1323, 18 (1992) 57
VLSI implementation 12 (1989) 195, 15 (1990) 277
VLSI parallel systems 18 (1992) 149
VLSI technology 17 (1991) 1009
Voice packet-switched network 19 (1993) 219
Voronoi diagram 12 (1989) 121, 17 (1991) 241, 17 (1991) 505

Wang Decomposition 17 (1991) 181
Wavefront algorithm 13 (1990) 85
Weak transitive closure 17 (1991) 471
Weather forecast 19 (1993) 1413, 19 (1993) 1427
Weighted graphs 18 (1992) 1143
Weight functions 17 (1991) 253

Whetstone	17 (1991) 1153
Wire-routing	17 (1991) 85
Wiring space	17 (1991) 997
Workload balancing	20 (1994) 1
Workstation cluster	19 (1993) 1041, 19 (1993) 1053, 20 (1994) 125, 20 (1994) 1547
Workstations	11 (1989) 305
Wraparound mesh	18 (1992) 639
WSI implementation	17 (1991) 997
WZ Factorization	15 (1990) 87
0/1 knapsack problem	18 (1992) 811
Zero-time	16 (1990) 273
Zipcode	20 (1994) 565